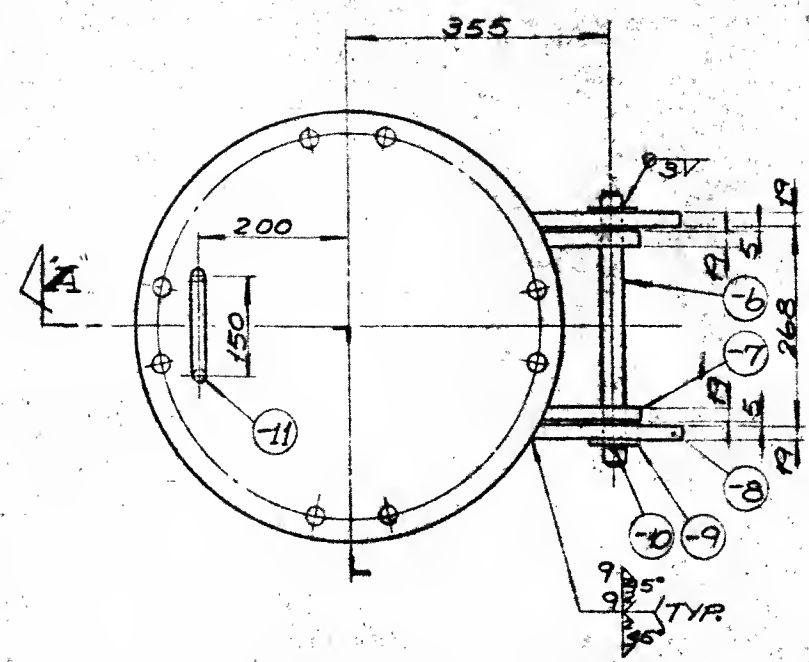
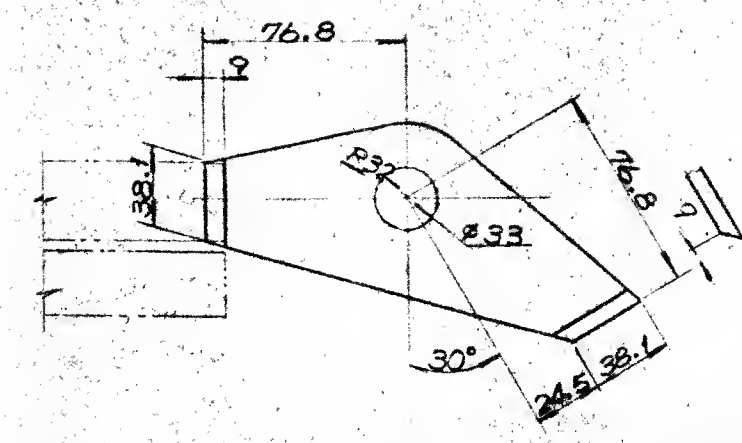


SECTION A-A

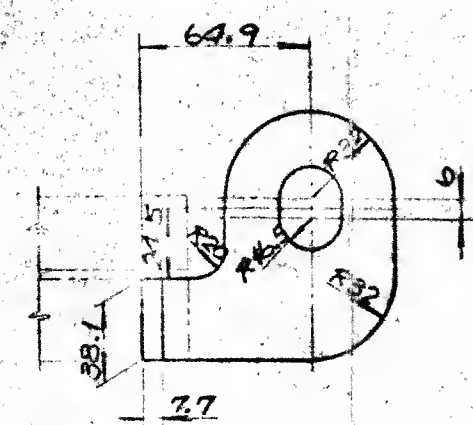


MANHOLE

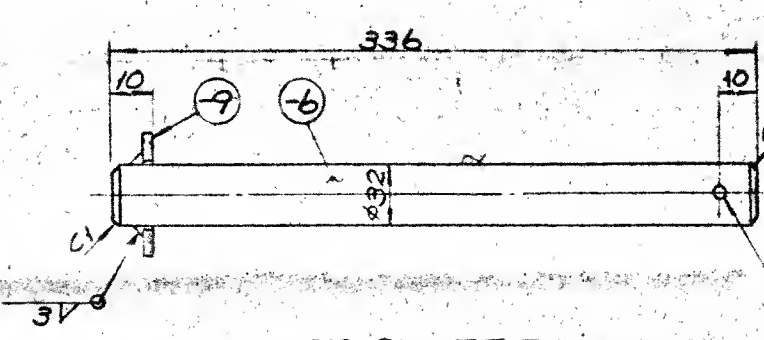
ASME
FABRICATION



HINGE DETAIL

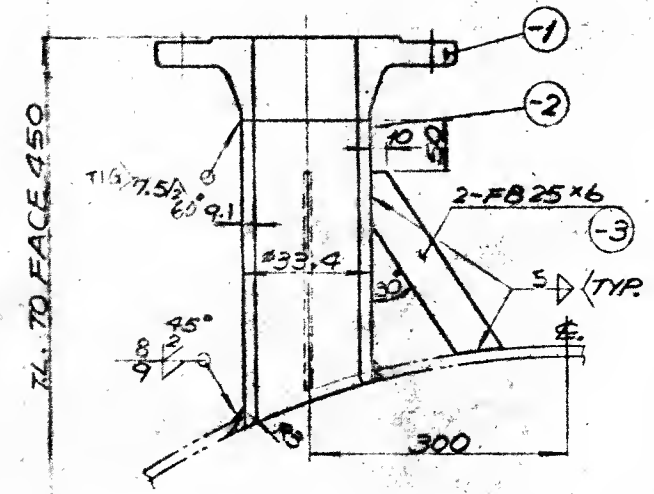


HINGE DETAIL

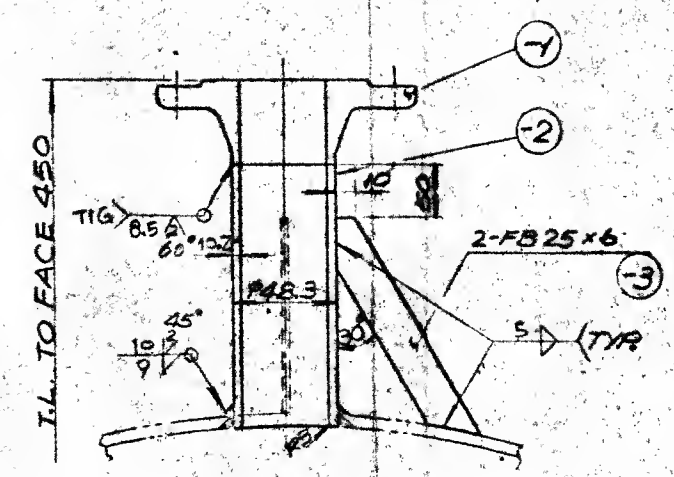


HINGE SHAFT DETAIL

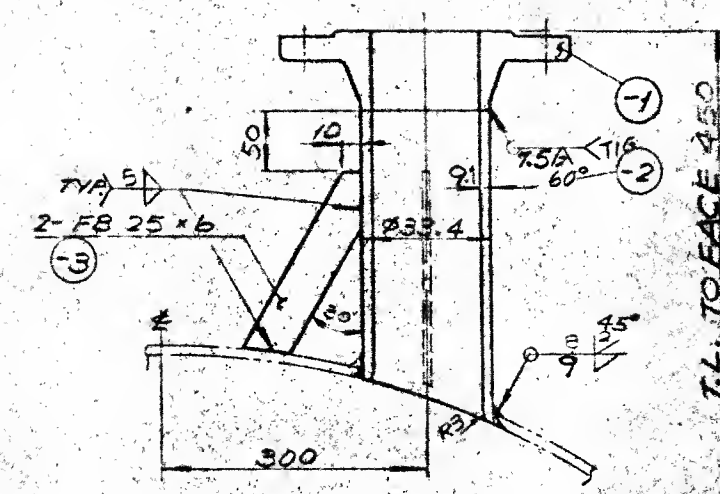
1-2 DRILL HOLE
FOR 26X45 SPLIT PIN



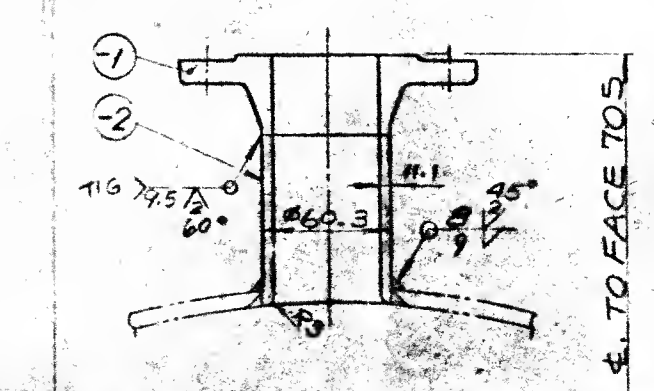
AIR INLET



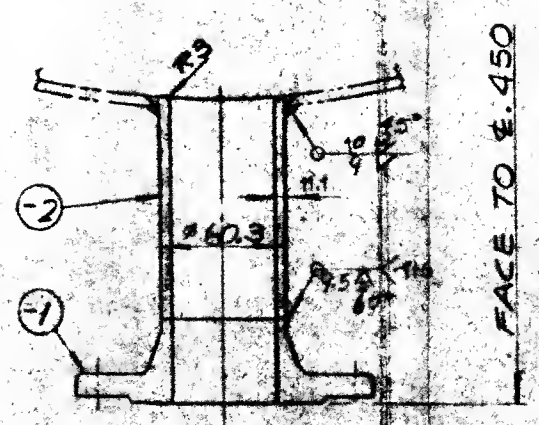
VENT



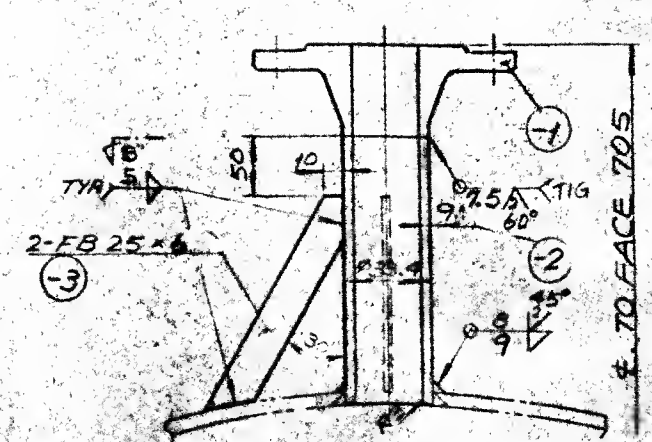
SAFETY VALVE



LIQUID INLET & OUTLET
LEVEL SWITCH F&L



DRAIN



PRESS. INDICAT.
LEVEL GAUGE

U
FINAL

SECTION B-B

REVIEWED BY C.C.

REVIEWED BY A.T.

NOTES

1. WELDING PROCEDURE QUALIFICATION TEST & WELDER'S PERFORMANCE QUALIFICATION TEST SHALL BE IN ACCORDANCE WITH ASME SEC. VIII DIV. 1 & IX.
2. BOLT HOLES OF ALL FLANGES SHALL BE STRADDLED THE CENTER LINE OF VESSEL.
3. NOZZLE NECK TO BE RADIOGRAPHED FULLY X-RAYED SECTIONS OF LONG. SEAMS.
4. LENGTH OF STUD BOLT DOES NOT INCLUDE THE HEIGHT OF THE POINTS.

NO.	DESCRIPTION	MAT'L	Q'TY	SIZE	REMARKS
3	GUSSET PL	A36	2	FB 25x6	
2	NECK	A106-B	1	1" SCH. XXS 10'-140.76	
1	FLANGE	A105	1	1" ANSI 150 WN. RF	SEE NOTE 4
17	PRESS. INDICAT.		1	SET	
18	LEVEL GAUGE		1	SET	
2	NECK	A106-B	1	2" SCH. XXS 10'-126"	
1	FLANGE	A105	1	2" ANSI 150 WN. RF	SEE NOTE 4
17	DRAIN		1	SET	
2	NECK	A106-B	1	2" SCH. XXS 10'-133.14	
1	FLANGE	A105	1	2" ANSI 150 WN. RF	SEE NOTE 4
16	LEVEL SWITCH L		1	SET	
15	LEVEL SWITCH H		1	SET	
14	LIQUID OUTLET		1	SET	
13	LIQUID INLET		1	SET	
3	GUSSET PL	A36	2	FB 25x6	
2	NECK	A106-B	1	1 1/2" SCH. XXS 10'-133.14	
1	FLANGE	A105	1	1 1/2" ANSI 150 WN. RF	SEE NOTE 4
12	VENT		1	SET	
3	GUSSET PL	A36	2	FB 25x6	
2	NECK	A106-B	1	1" SCH. XXS 10'-133.14	
1	FLANGE	A105	1	1" ANSI 150 WN. RF	SEE NOTE 4
11	SAFETY VALVE		1	SET	
3	GUSSET PL	A36	2	FB 25x6	
2	NECK	A106-B	1	1" SCH. XXS 10'-133.14	
1	FLANGE	A105	1	1" ANSI 150 WN. RF	SEE NOTE 4
10	AIR INLET		1	SET	
13	PAD	A516-55	1	2.9 x 150	
12	PLUG	A36	1	PT 1/4"	
11	HANDLE	A36	1	R.B. 16	
10	SPLIT PIN	A36	1	16-45	
9	WASHER	A286-C	4	1/2" x 1/4" x 3/4"	
8	COVER HINGE	A286-C	2	1/2" x 1/4" x 3/4"	
7	FLANGE HINGE	A286-C	2	1/2" x 1/4" x 3/4"	
6	HINGE SHAFT	A36	1	1/2" x 1/4" x 3/4"	
5	STUD BOLT & NUT	A193-B1	16	1/2" x 1/4" x 3/4"	SEE NOTE 4
4	GASKET	ASBESTOS	1	15.00 x 15.00 x 0.125	
3	BLIND FLANGE	A105	1	1" ANSI 150 BL. RF	
2	NECK	A516-55	1	1/2" x 1/4" x 3/4"	
1	FLANGE	A105	1	1" ANSI 150 WN. RF	SEE NOTE 4
9	MANHOLE		1	SET	

NO.	DESCRIPTION	MAT'L	Q'TY	SIZE	REMARKS
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MATERIAL LIST					
△					
△					
△					
△					
△	ISSUED FOR APPROVAL	81.7	WELD	Y.P.CIN	m
NO.	DESCRIPTION	DATE	PRD	CHK'D	APP'D

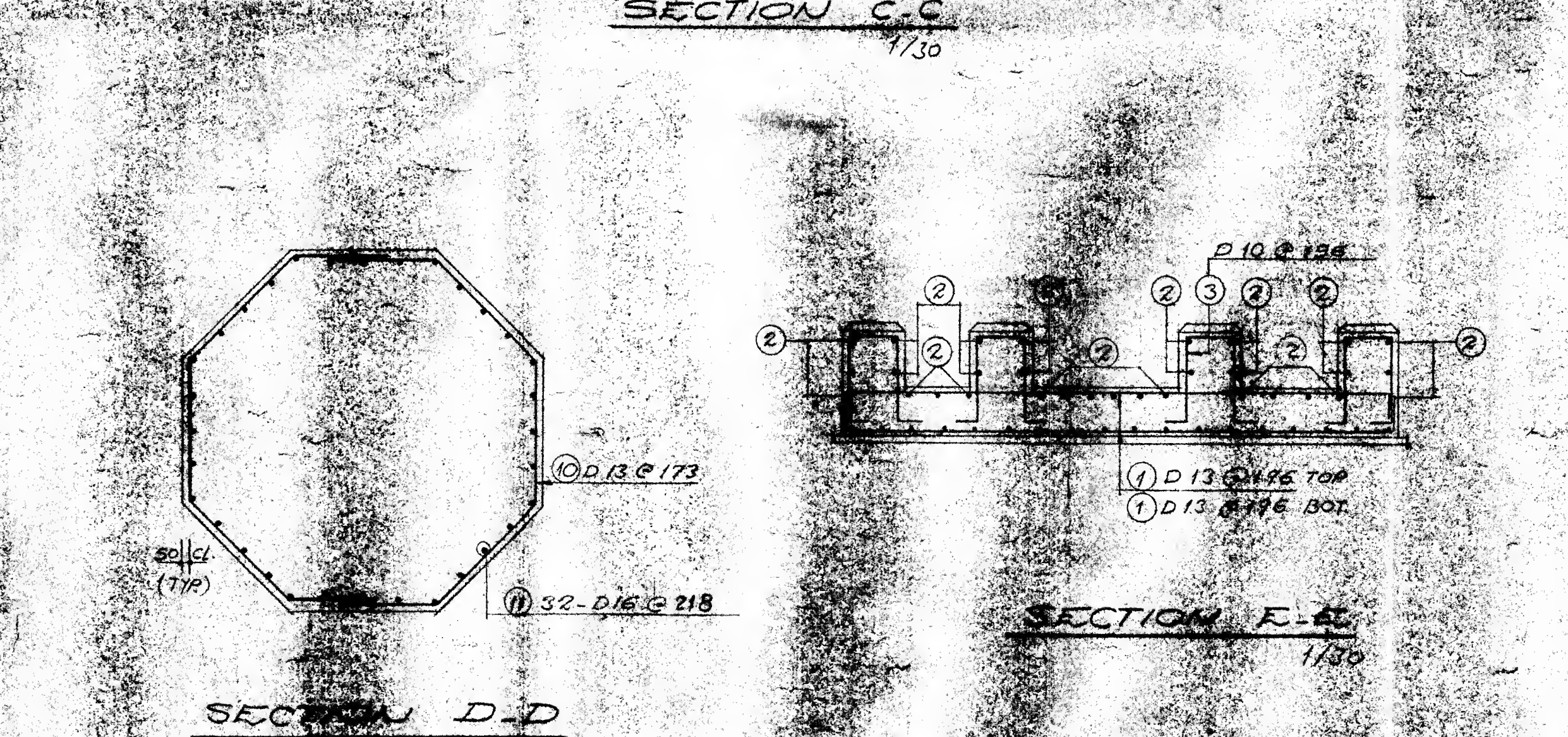
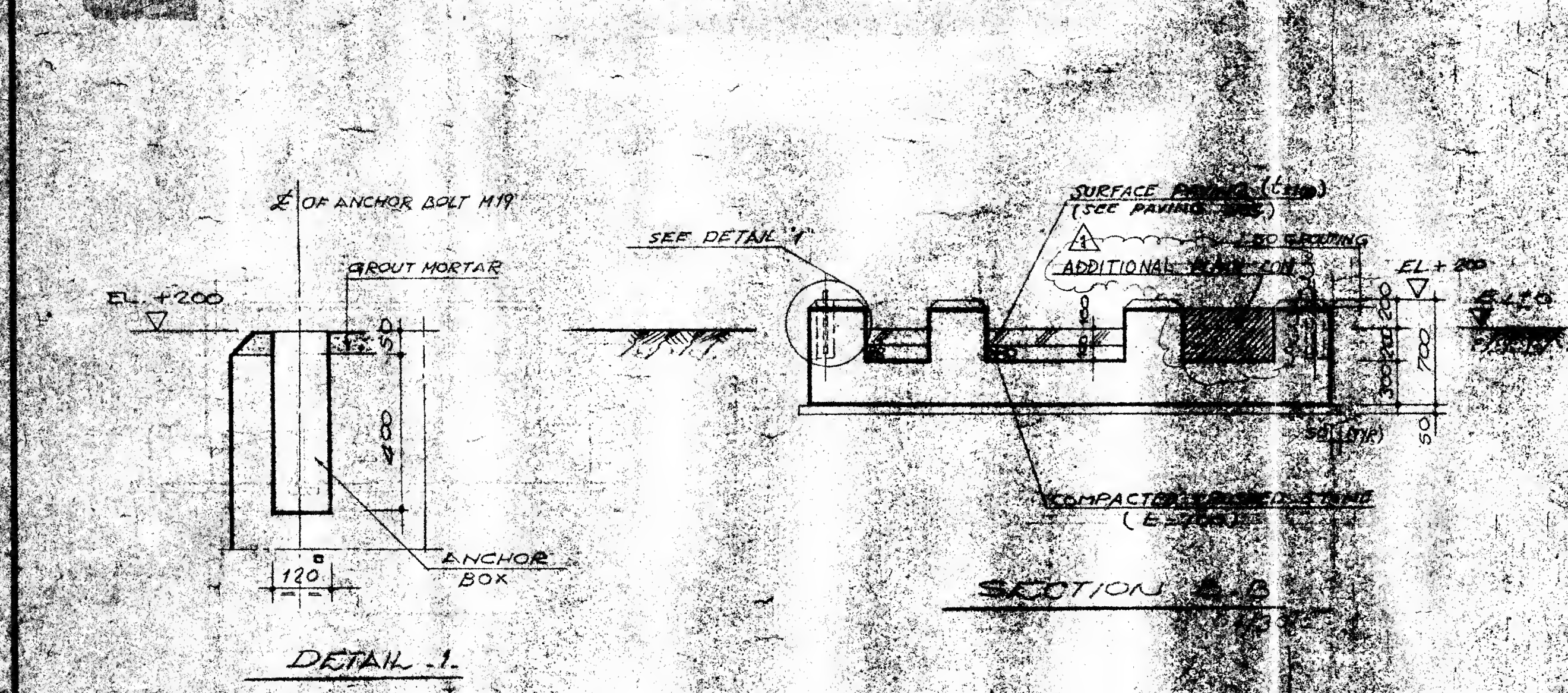
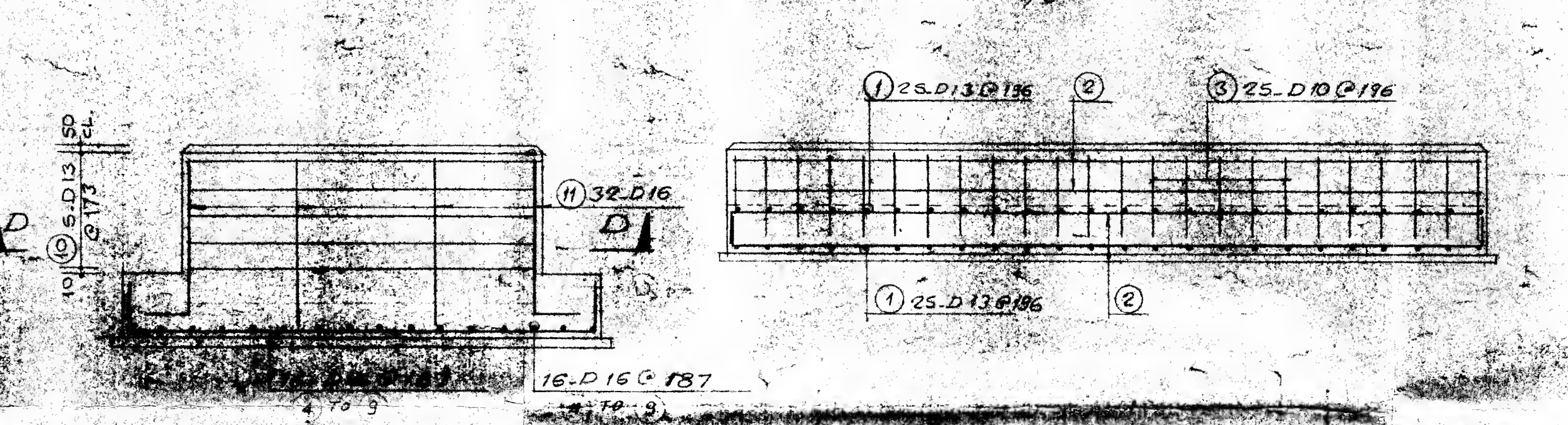
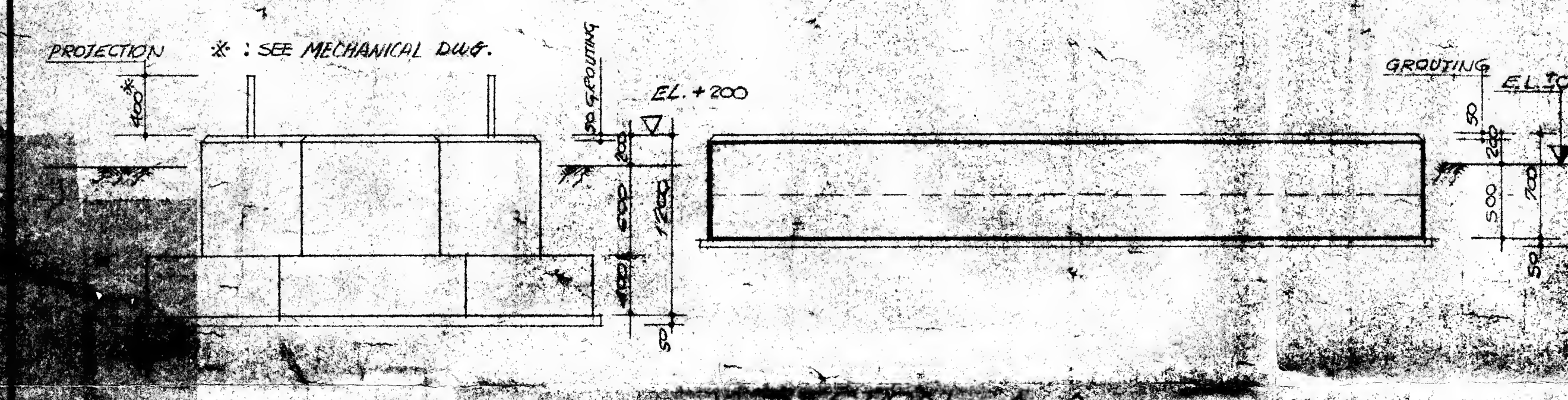
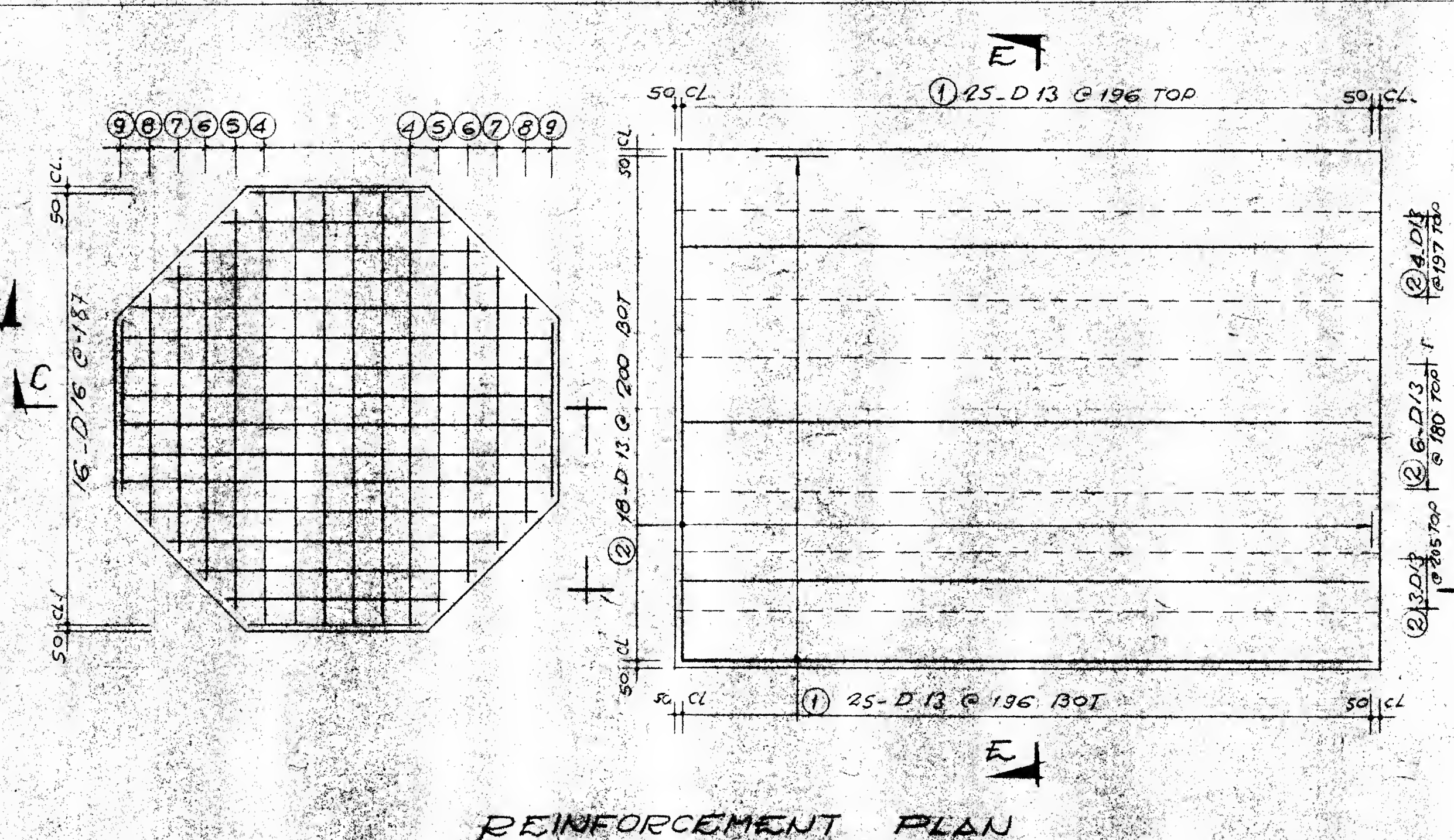
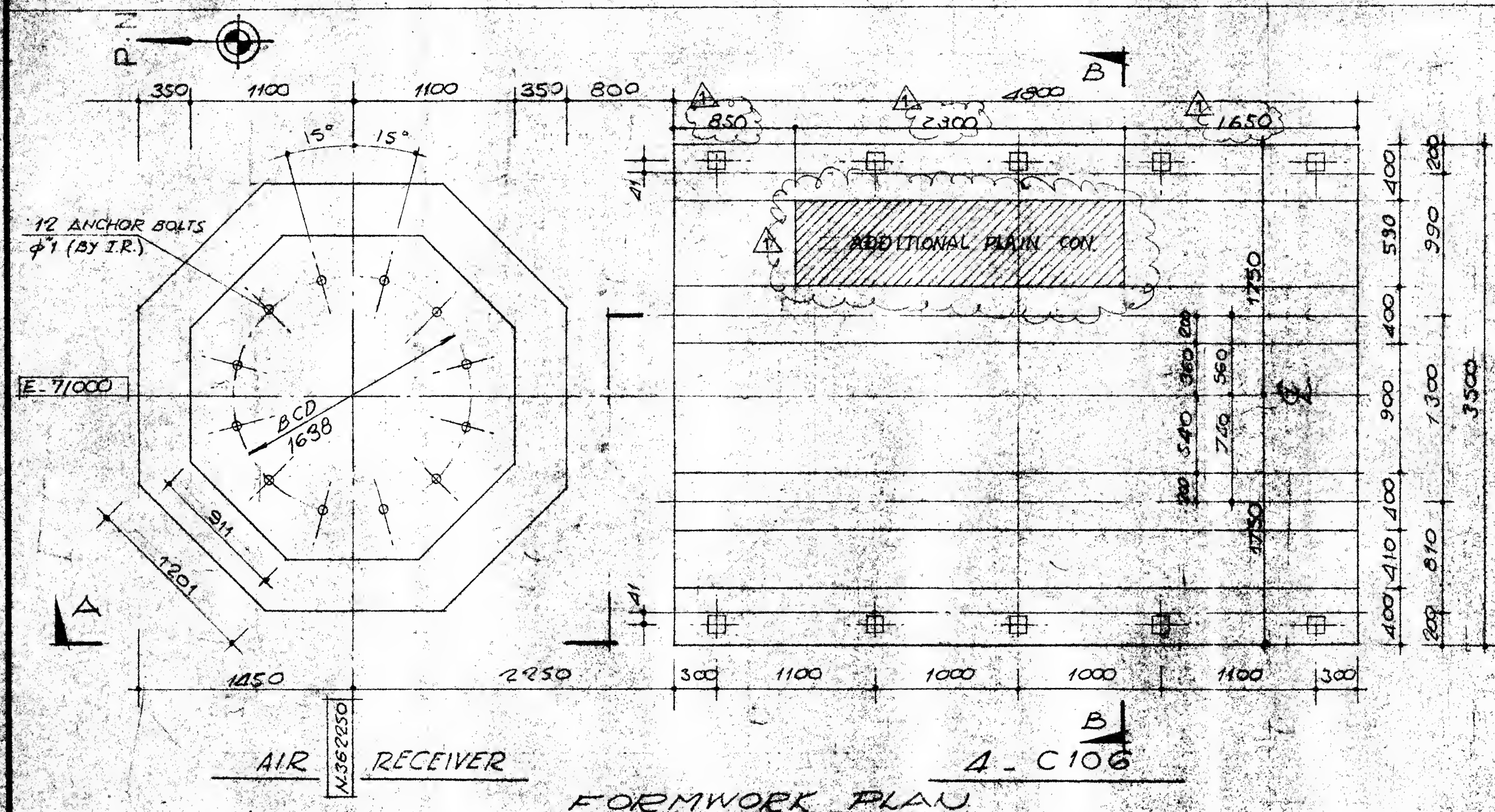
REVISIONS

CUSTOMER: DAEJIN ENGINEERING CO., LTD.
TITLE OF PROJECT: GULF OF SUEZ GAS PROJECT
RAS SHUKEIR, EGYPT

KHIC KOREA HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.

APPROVED	D.K. Lee	21.7.16	ITEM NO.	3-V14
CHECKED	Y.K. Kim	21.7.15		
DESIGNED	Y.H. Kim	21.7.15		
DRAWN	Y.H. Kim	21.7.15		
BY				

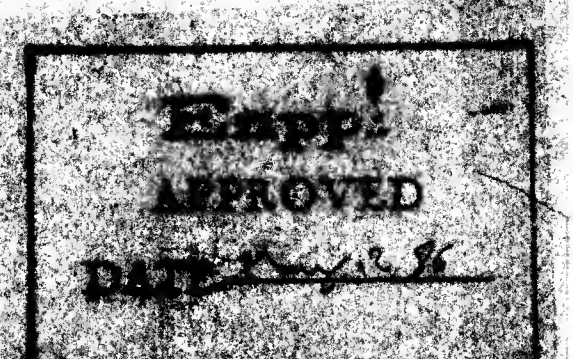
PRODUCTION ORDER NO.	SCALE	DWG. NO.	SHEET NO.	REV.
16-17000-1-000	1/2"	GD-21-101-042-0	2/2	△



BAR BENDING SCHEDULE									
ITEM	A	B	C	D	E	F	G	H	
1	13	196	3800	50	1	50		3440	
2	13	5700	48	1	29			4150	
3	10	196	1740	100	1	100			
4									
5									
6									
7									
8									
9									
10									
11									

REFERENCE DRAWINGS		
NAME OF DRAWINGS	SHEET No.	REV.
FOUND. LOCATION PLAN	GOS-AC-1400-53.011	
CONCRETE SPECS.	GOS-AC-20.006	
CONCRETE ACC.	GOS-AC-20.010	
SHIM & GROUTING	GOS-AC-20.007	

NOTE:
ALL DIMENSIONS ARE IN M.M.



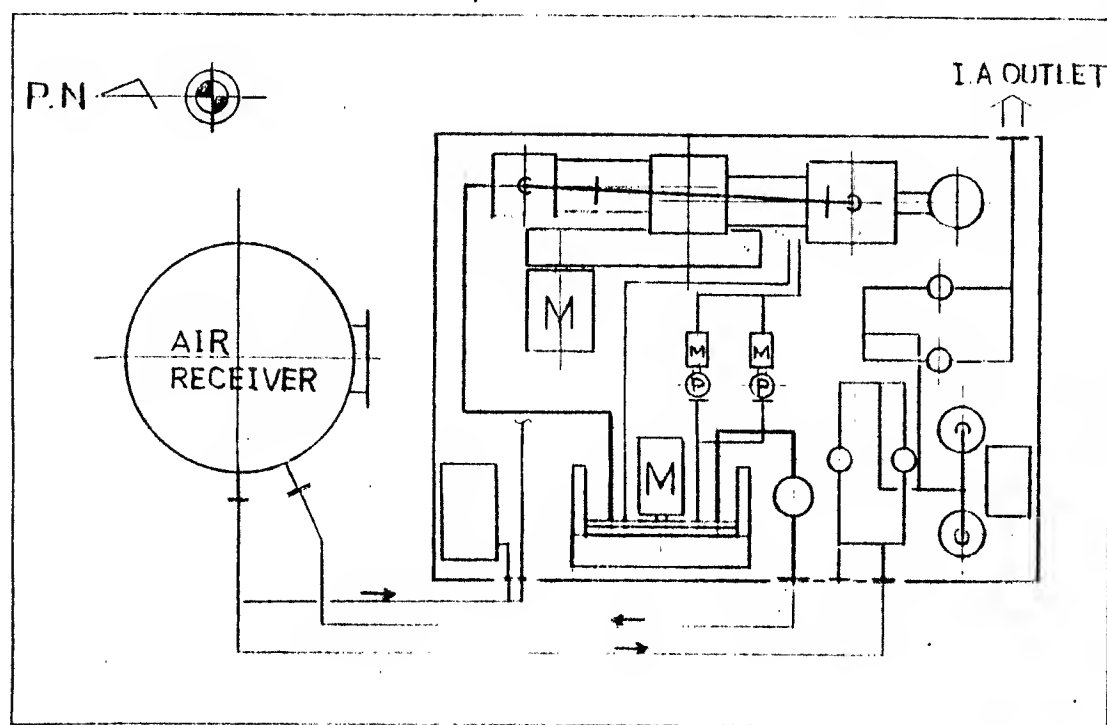
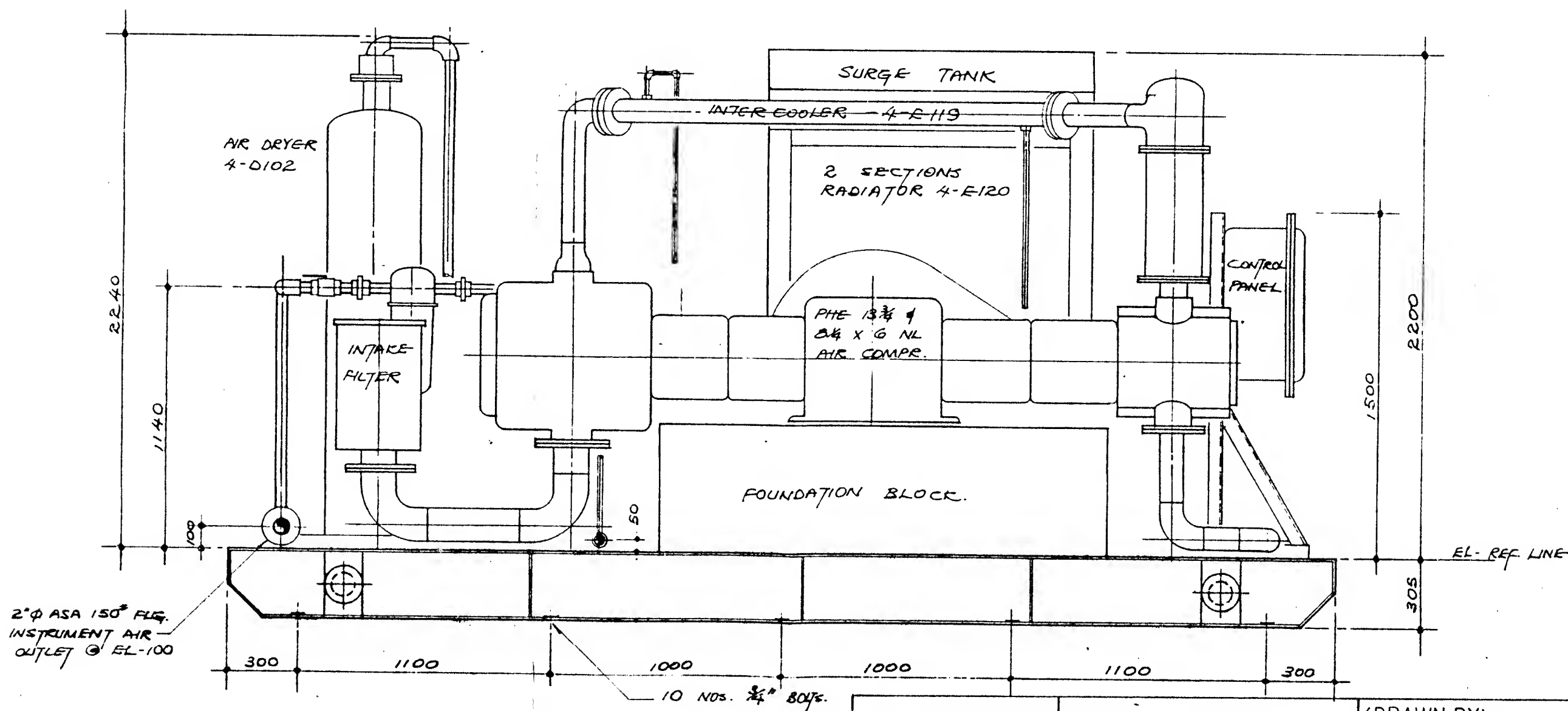
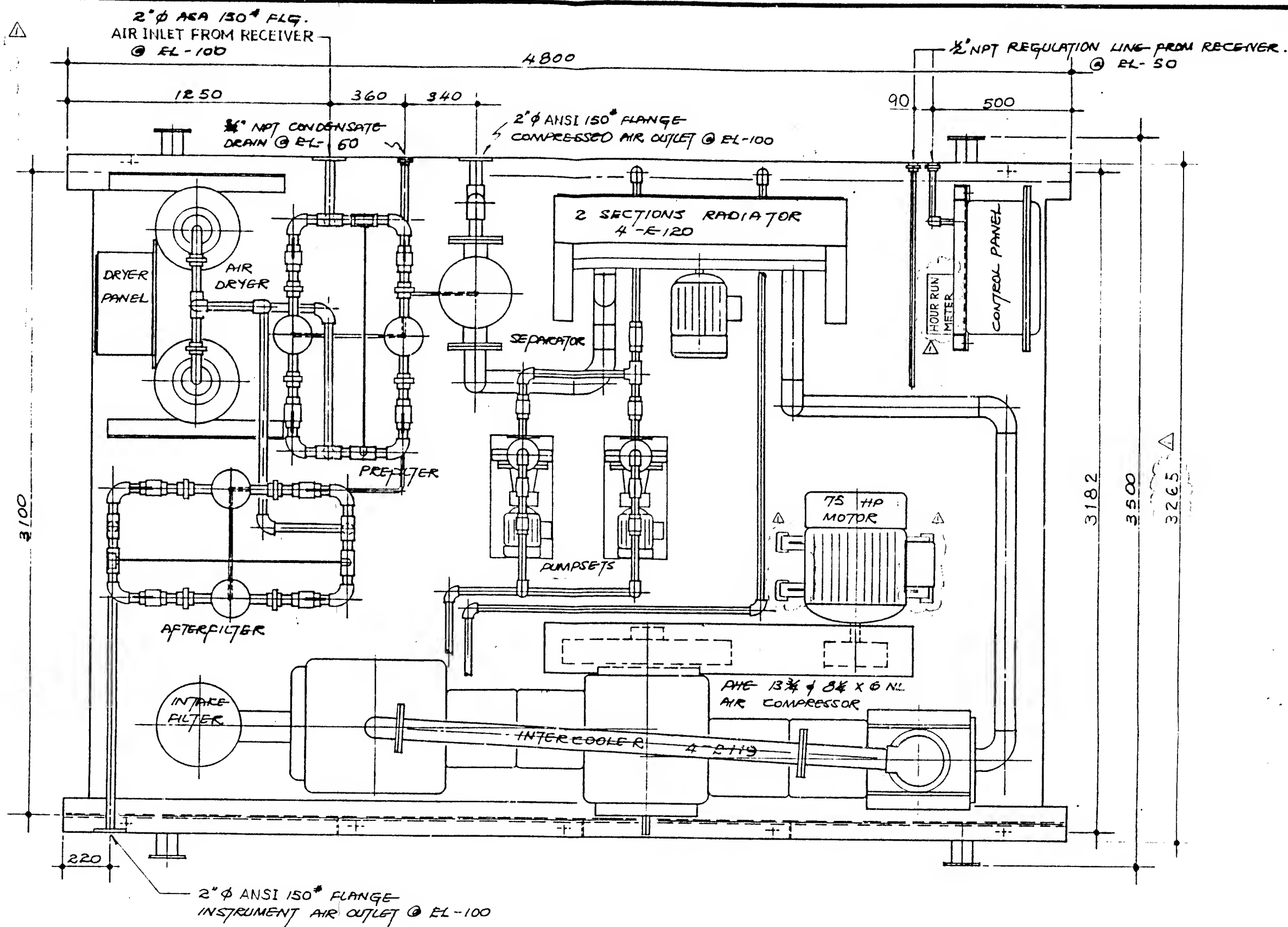
NOTES:
A... MARK OF REINFORCEMENT.
B... DIAMETER OF REINFORCEMENT.
C... SECTION.
D... STRAIGHTENED LENGTH OF REINFORCEMENT.
E... NUMBER OF REINFORCEMENT PER ELEMENT.
F... NUMBER OF ELEMENT.
G... TOTAL NUMBER OF REINFORCEMENT.
H... FIGURE.

LIST OF MATERIALS			
DESCRIPTION	UNIT	QUANTITY	REMARKS
REINFORCED CONC.	M ³	13.51	
LEVELLING CONC.	M ³	25.09	
FORMWORK	M ²	28.76	
EXCAVATION	M ³	17.58	
BACK FILLING	M ³	4.51	
BAR D-10	KG.	97.44	
BAR D-13	KG.	476.61	
BAR D-16	KG.	206.55	

REVIS	DESCRIPTION	DATE	CHKD
1	REVISED AS NOTED	21.07.81	N.H.
2	ISSUED FOR APPROVAL	22.08.81	OSAKA

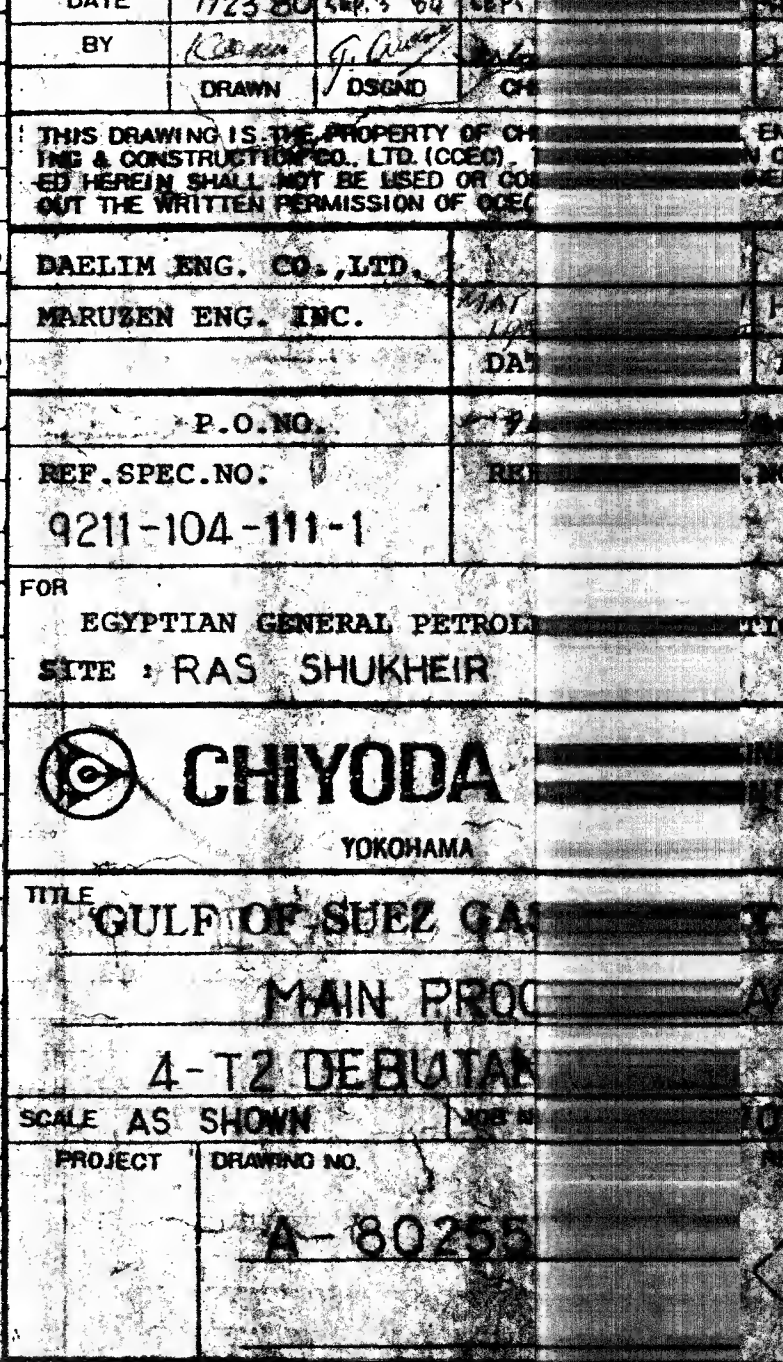
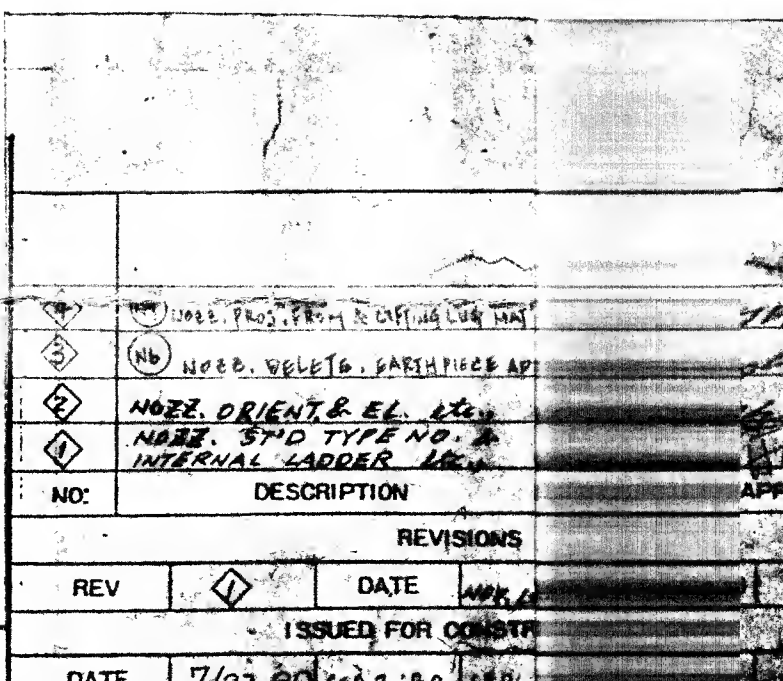
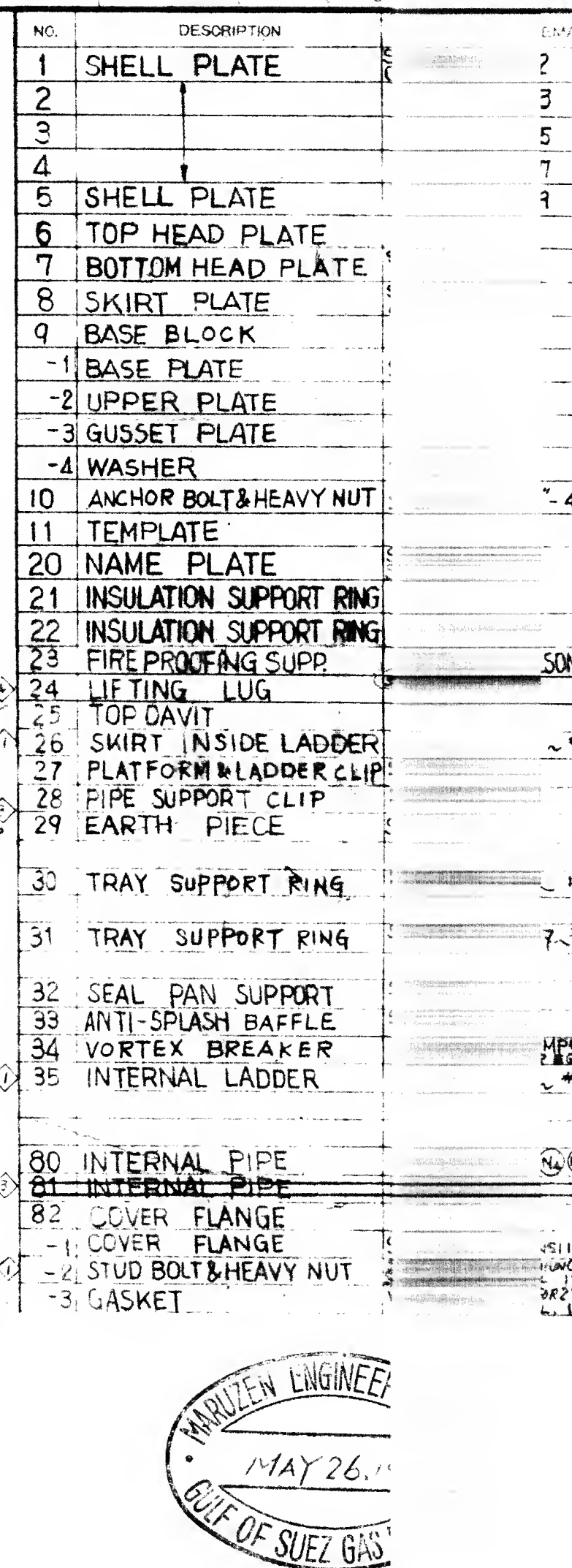
1401 EGPC
SUEZ CANAL PROJECT
FOUNDATION DETAILS FOR
AIR RECEIVER (A-X-10)
SCALE 1/20
Hitachi Zosen
CIVIL ENGINEERING DEPARTMENT
OSAKA, JAPAN
DATE APR. 19/85
2485377
2485377

WEIGHT (kg)	
COMPRESSOR	2868
MOTOR	470
AFTERCOOLER	590
CONTROL PANEL	91
DRYER UNIT	995
PUMP 2sets	110
PRE &	
AFTERFILTER	24
SEPARATOR	68
PIPING	160
SKID	4800
OTHERS	136
TOTAL	10312

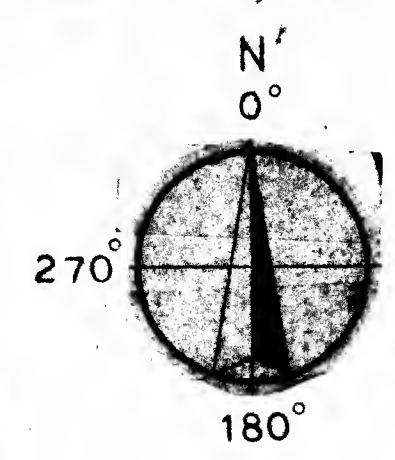


REMARKS
Rev.1 Issued for Construction

L.NO. 06291401		OWNER	EGPC		(DRAWN BY) (CHECKED BY) <i>R. Yanagihara</i> <i>K. Kato</i> <i>H. W.</i>
GOS-II 4-X105		ASSEMBLY DRAWING			
CLASS UI, UNIT		SPEC NO. UI 40-001			
DRWG NO. 3245252					
A	6-12-85	SUBMISSION FOR APPROVAL			
REVISION	DATE	DESCRIPTION			APPROVED
DESIGNED	DRAWN	CHECKED	EPS. DEPT. APPR		IR EQUIPT. REF
INGERSOLL-RAND 42 C106 Ingersoll-Rand South East Asia (Pte) Ltd 42, Benoi Road, Jurong Industrial Estate, Singapore 2262. Tel: 654311 Mail: GPO Box 2062, Telex: IRSPORE 21781					
GENERAL ARRANGEMENT OF ONE UNIT PHE-2 13 3/4 & 8 1/4 X 6 NL-2 AIR COMPRESSOR PACKAGE					
CUSTOMER		IR JAPAN (HITACHI-RAS SHUKHEIR)			
SCALE	DATE	DRAWING NO			REVISION
1:20	4-12-85	E 2124			A
PROJECT NO: 1670					



S0-1	20"	1	72	SEE DWG NO. B-8025435	MANHOLE	ANSI 150 W.N.R.F.	SA105	12	SA156G-60	1000	W/HINGE
S0-1	16"	1	60	AA-114-A-11A	SKIRT OPENING			14	SS41		
SA	24"	1	75	AS SHOWN	SKIRT ACCESS			14	SS41		
SV	4"	1	74	AS SHOWN	SKIRT VENT			40	STPG38		
M2-3	20"	2	73	SEE DWG NO. B-8025804	MANHOLE	ANSI 150 W.N.R.F.	SA105	12	SA156G-60	1000	W/HINGE
N16	1/2"	1	68	SEE DWG NO. C-8025627	THERMOWELL	ANSI 150 L.N. R.F.		(14.3)		930	
N15	1"	2	71	AA-310-A-33B	LEVEL GAUGE	ANSI 150 W.N.R.F.		(XKS)		900	
N14	2"	1	70	AA-101-A-11A	UTILITY	ANSI 150 W.N.R.F.		160	SA106G-B	900	
N13	1/2"	1	68	SEE DWG NO. C-8025627	THERMOWELL	ANSI 150 L.N. R.F.		(14.3)		930	
N12	1/2"	1	68	SEE DWG NO. C-8025627	THERMOWELL	ANSI 150 L.N. R.F.		(14.3)		930	
N11	2"	1	69	AA-101-B-11A	VENT	ANSI 150 W.N.R.F.		160	SA106G-B	AS SHOWN	W/BLIND FLANGE
N9	1/2"	1	76	SEE DWG NO. C-8026627	TEMP. INDIC.	ANSI 150 L.N. R.F.		(14.3)		900	
N8	10"	1	67	AA-101-A-11A	OVHD VAPOR	ANSI 150 W.N.R.F.		80	SA106G-B	AS SHOWN	
N7	6"	1	66	AA-101-A-11A	REFLUX	ANSI 150 W.N.R.F.		12		950	
N6	6"	1	65	AA-101-B-11A	OFF SPEC LPG	ANSI 150 W.N.R.F.		12			W/INT. PIPE
N5	8"	1	64	AA-109-B-11J	FEED	ANSI 150 W.N.R.F.		12		950	W/INT. PIPE
N4	8"	1	63		FEED			12			W/INT. PIPE
N3	8"	1	62	AA-109-B-11J	FEED			12			W/INT. PIPE
N2	8"	1	61	AA-101-A-11A	REBOILER W/IN			19	SA156G-60	950	
N1	8"	1	60	AA-114-A-11A	REBOILER FEED	ANSI 150 W.N.R.F.	SA105	80	SA156G-60	AS SHOWN	W/VORTEX BREAKER
MARK	SIZE	NO. PART REQ'D.	ST'D TYPE NO	SERVICE	RATING	MAT'L	SCH. NO. THK	MAT'L	THK	MAT'L	REMARKS
					FLANGE		NECK		REINFORCING R.	PROJECT FROM C.	
NOZZLE SCHEDULE											



*2~*20 EVEN NO. TRAY D.C.

*22~*34 EVEN NO. TRAY D.C.

*21~*35 ODD NO. TRAY D.C.

*21~*35 ODD NO. TRAY D.C.

*21~*35 ODD NO. TRAY D.C.

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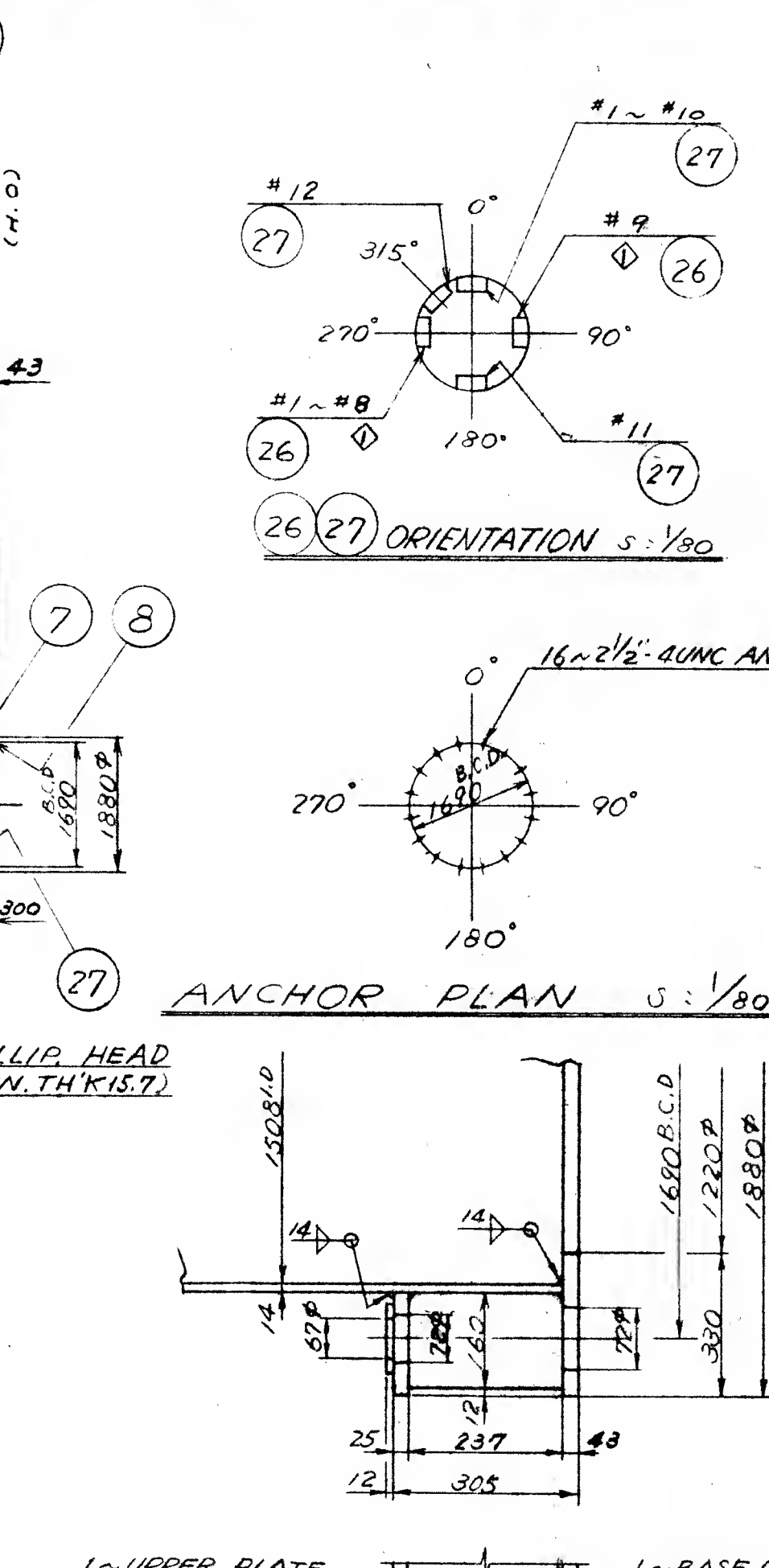
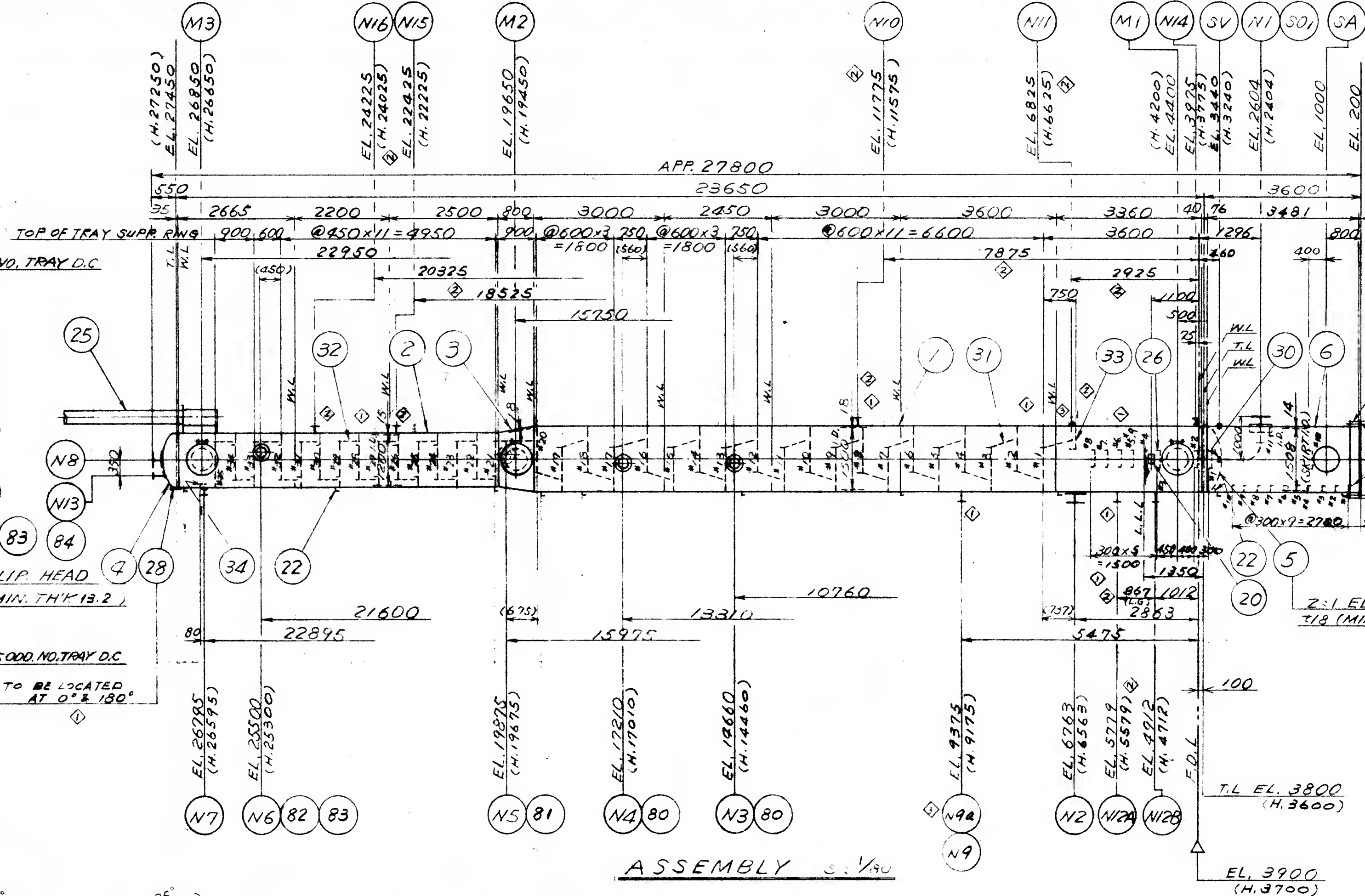
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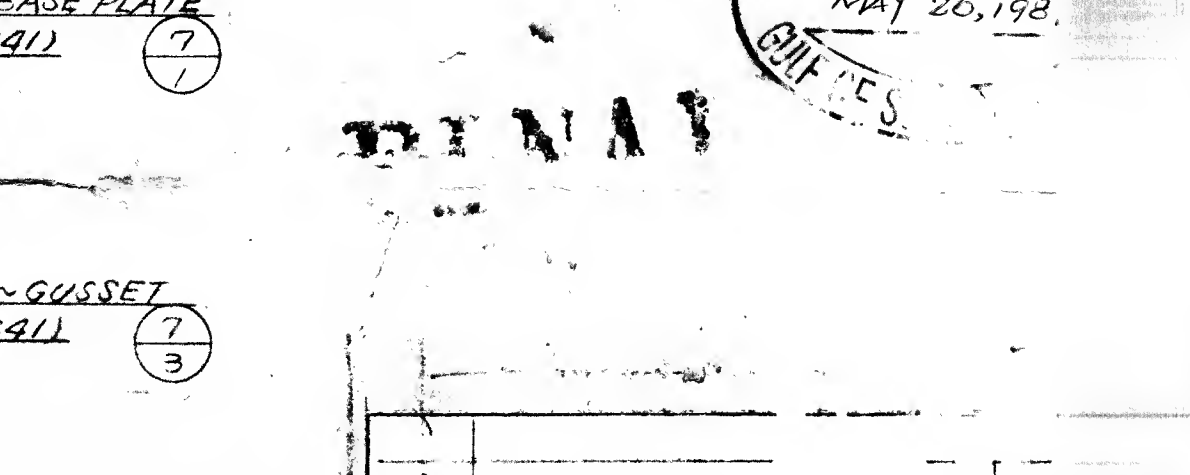
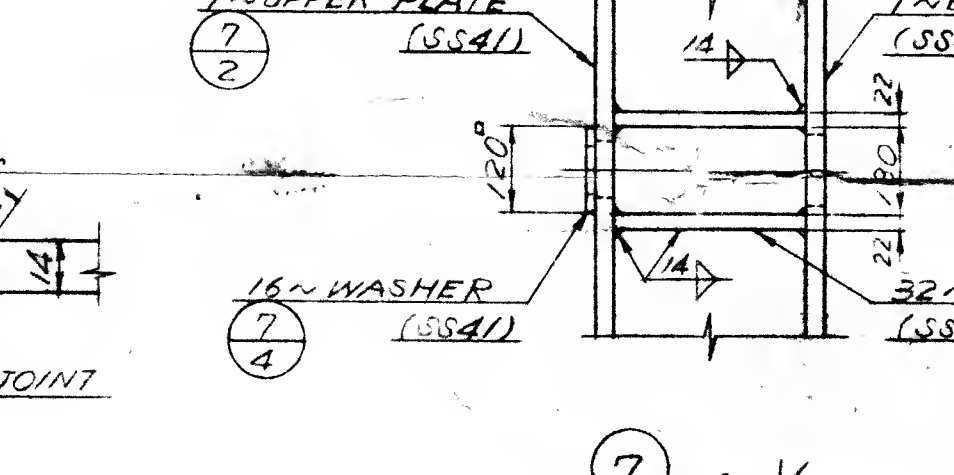
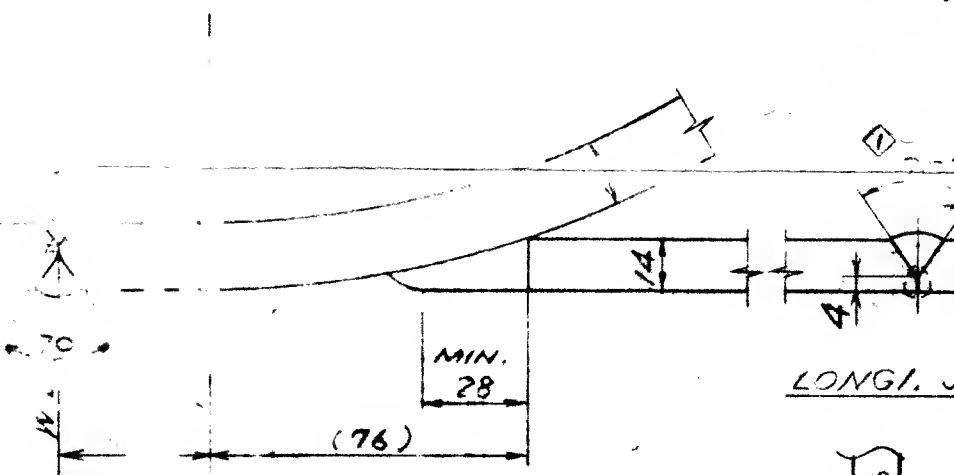
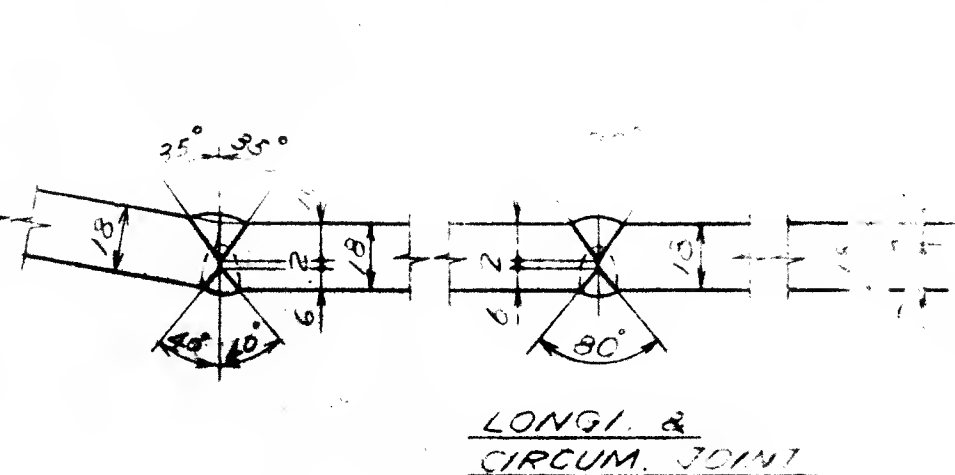
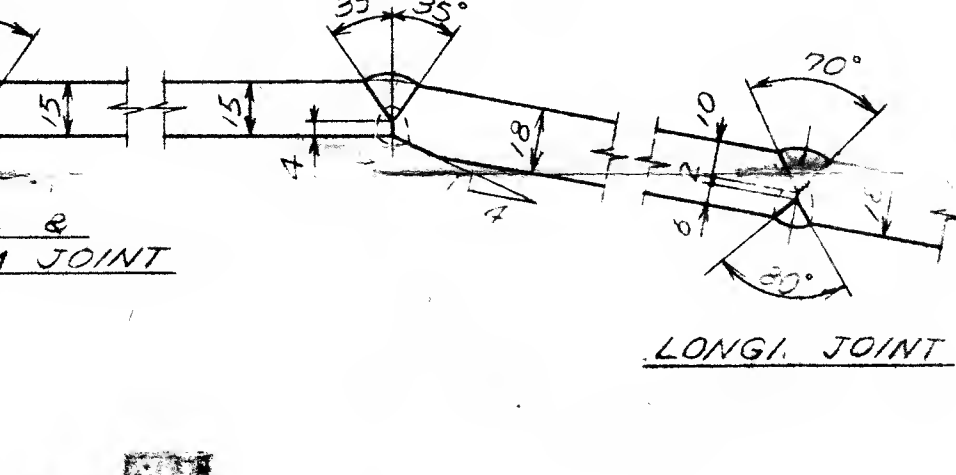
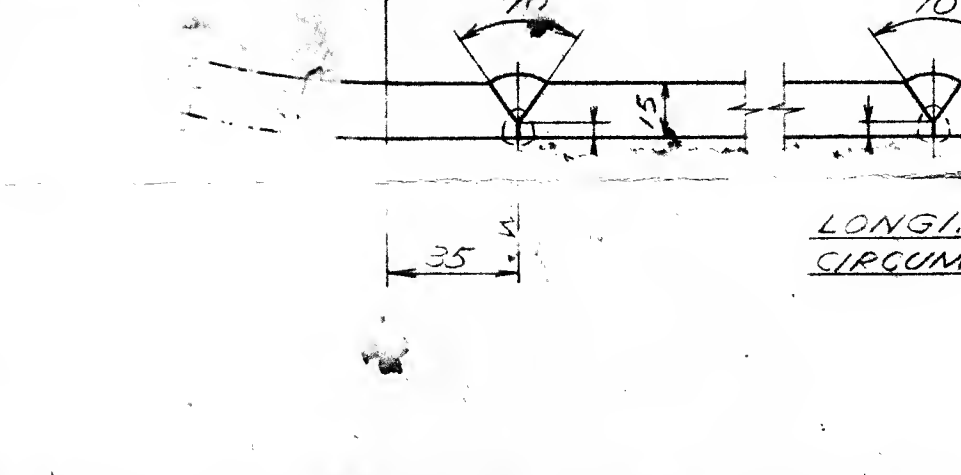
*21~*35 ODD NO. TRAY D.C.

*21~*35 ODD NO. TRAY D.C.

*21~*35 ODD NO. TRAY D.C.



NO.	DESCRIPTION	MATL.	QTY.
1	SHELL PLATE	SA516	1
2	SHELL PLATE	SA516	1
3	CONICAL SHELL PLATE	SA516	1
4	TOP HEAD PLATE	SA516	1
5	BOTTOM HEAD PLATE	SA516	1
6	SKIRT PLATE	SA516	1
7	BASE BLOCK	SS41	1
8	ANCHOR BOLT & HEAVY NUT	SS41	1
9	TEMPLATE	SS41	1
20	NAME PLATE	SA516	1
21	FIRE PROOFING	SA516	1
22	INSULATION SUPPORT	SA516	1
23	PLATFORM & LADDER CLIP	SA516	1
24	PIPE SUPPORT CLIP	SA516	1
25	TOP DAVIT	SA516	1
26	INSIDE LADDER	SA516	1
27	INTERNAL LADDER	SA516	1
28	LIFTING LUG	SA516	1
29	EARTH PIECE	SA516	1
30	VORTEX BREAKER	SA516	1
31	TRAY SUPPORT	SA516	1
32	TRAY SUPPORT	SA516	1
33	SEAL PAN SUPPORT	SA516	1
34	ANTI-SPLASH Baffle	SA516	1
35	INTERNAL PIPE	SA516	1
36	INTERNAL PIPE	SA516	1
37	INTERNAL PIPE	SA516	1
38	REDUCING FLANGE	SA516	1
39	GASKET	SA516	1
40	STUD BOLT & HEAVY NUT	SA516	1
41	BLIND FLANGE	SA516	1
42	GASKET	SA516	1
43	STUD BOLT & HEAVY NUT	SA516	1



1. WELDING MATERIAL
(1) SMAW - SP45.1 E-7016 - TRADE NAME LB-52
(2) GTAW - SP45.1 E-7016 - TRADE NAME TGS-50
(3) SAW - SP45.17 F76-EH14 - TRADE NAME MF38-US36

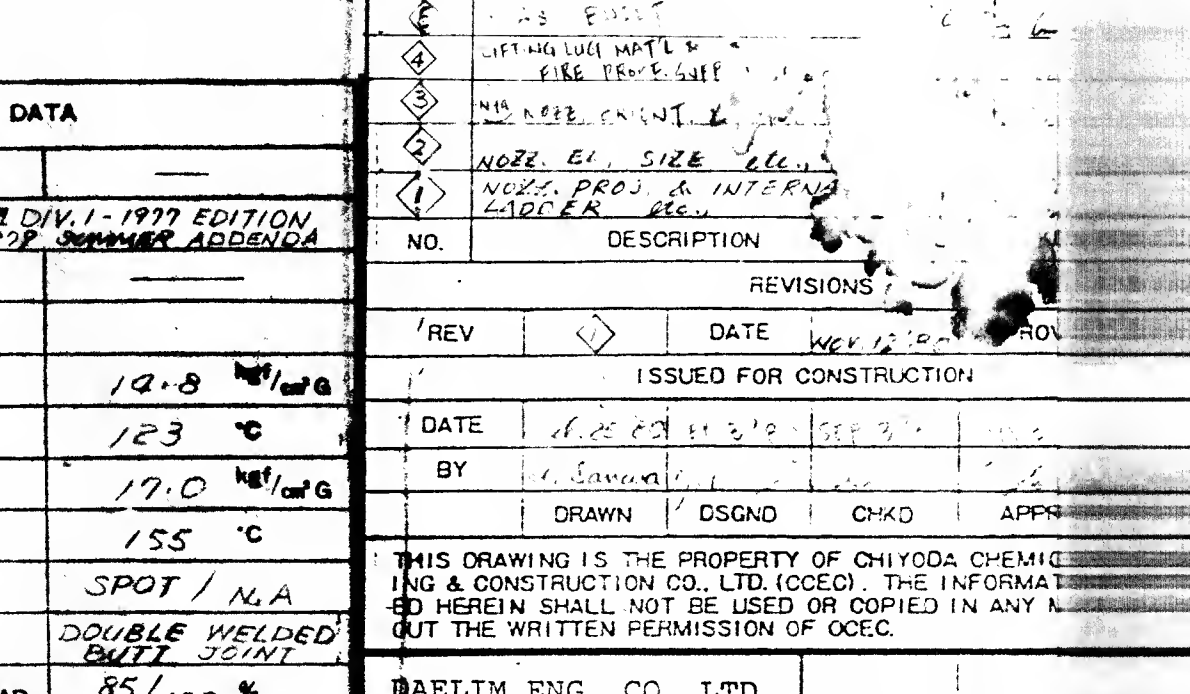
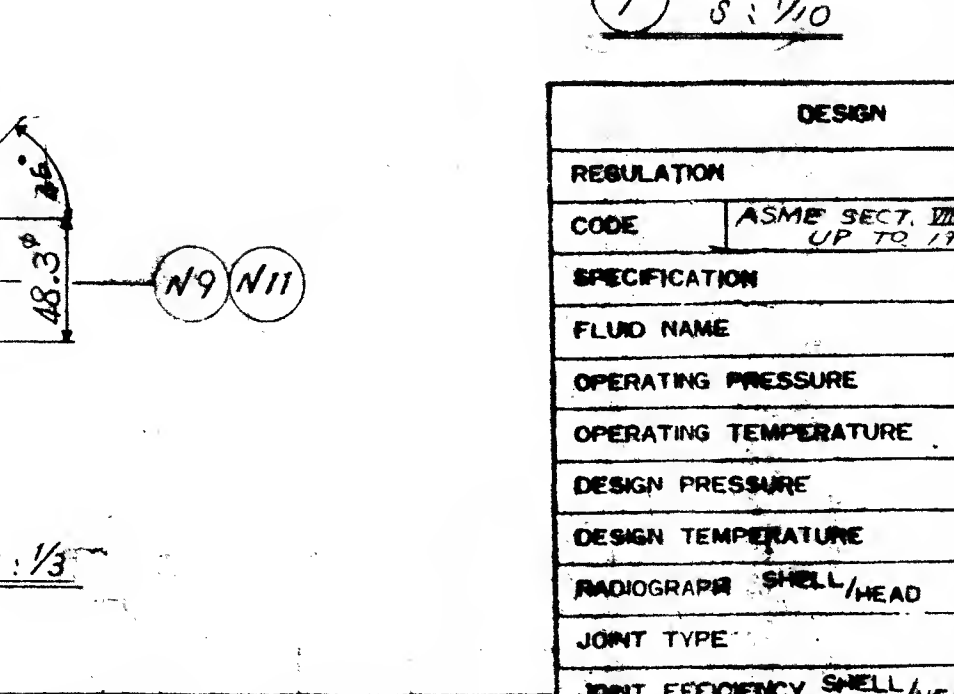
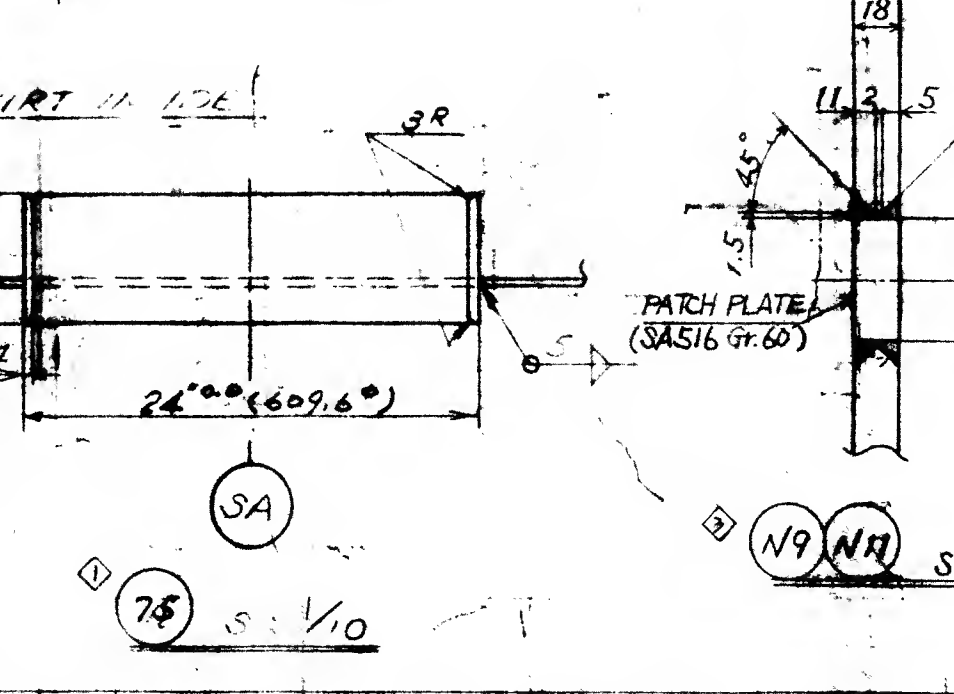
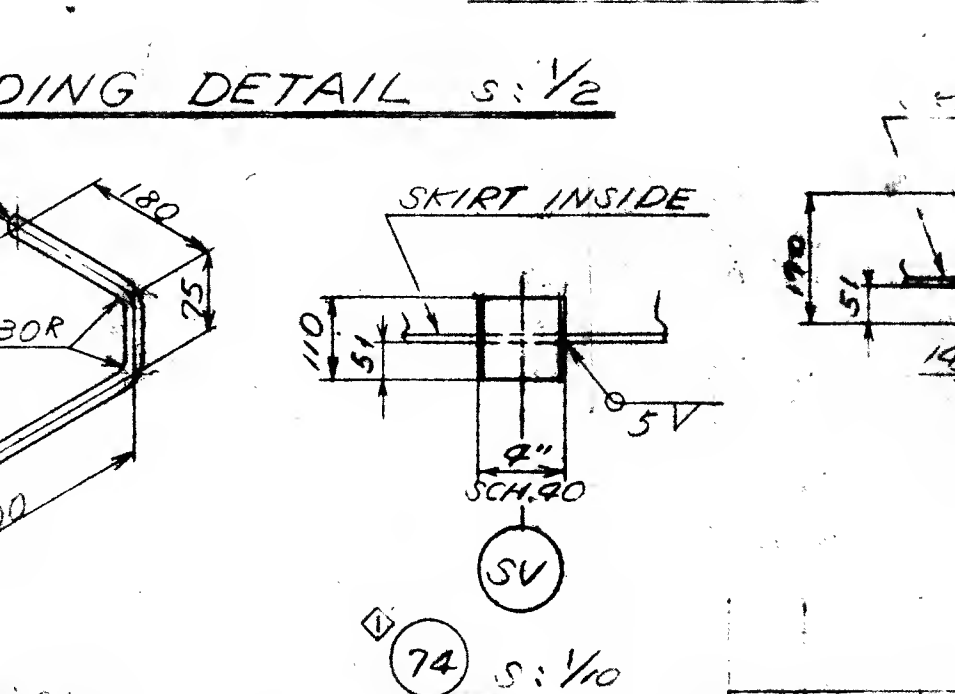
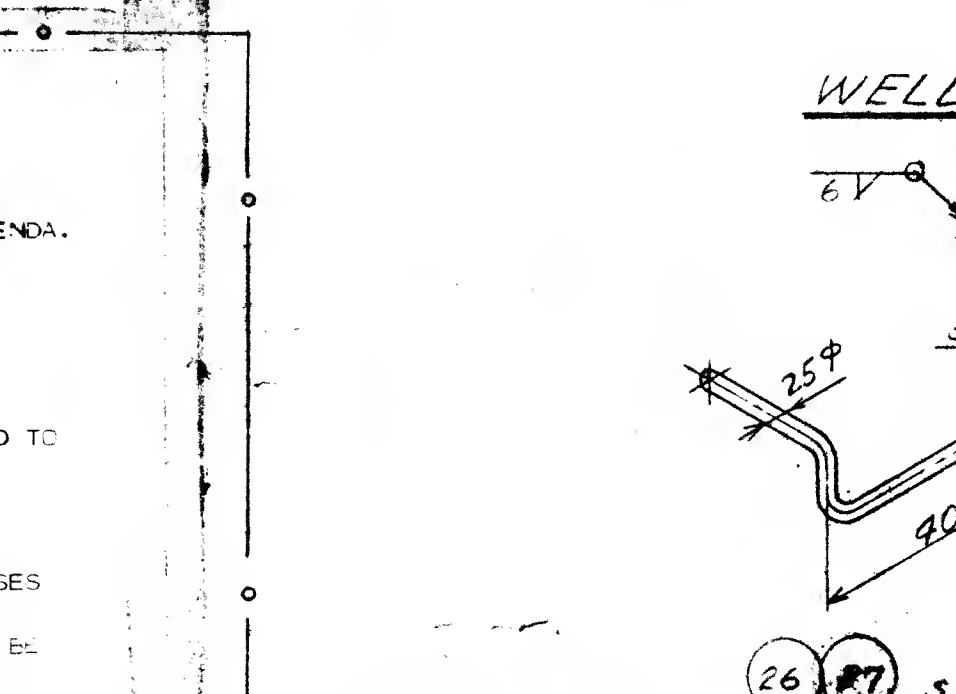
2. RADIOGRAPHIC EXAMINATION FOR WELD
IN ADDITION TO SPOT RADIOGRAPHY PER UW-11(b), HEAD TO SHELL JOINT SHALL BE PARTIALLY RADIOGRAPHED PER UW-11(a)(5)(b).

3. WELD HARDNESS
(1) HARDNESS TEST SHALL BE CARRIED OUT AND HARDNESSES SHALL NOT EXCEED HB 210.
(2) THE NUMBER AND LOCATION OF HARDNESS TEST SHALL BE AS FOLLOWS:
ONE FOR EACH 10 FEET, OR FRACTION THEREOF, FOR EACH CIRCUMFERENTIAL SEAM.
ONE FOR EACH NOZZLE TO SHELL WELD.
ONE FOR EACH AREA WHERE TEMPORARY WELD HAS BEEN MADE.
LOCATION TO BE TESTED SHALL BE IN OR NEAR THE CENTER OF THE WELD.
WELD TO BE TESTED SHALL BE ON THE SIDE EXPOSED TO THE PROCESS ENVIRONMENT.
WHERE NOT PRACTICAL, TEST SHALL BE MADE ON THE PROTECTIVE SIDE.

4. HEAT TREATMENT PER UW-14
FORMED BOTTOM HEAD SHALL BE HEAT TREATED AS FOLLOWS:
HEATING TEMP. --- 625 ± 25°C
HEATING TIME --- 1 HOUR

5. VESSEL AND ITS SUPPORT ARE CAPABLE OF A FIELD HYDROSTATIC TEST.
EXTERNAL ATTACHMENTS WHOSE WELD CROSS VESSEL SEAM SHALL BE CUT OUT LOCALLY SO AS TO AVOID INTERFERENCE OF WELD.
FLANGE BOLT HOLES SHALL STRADDLE THE VERTICAL OR EAST WEST NORTH SOUTH HORIZONTAL CENTER LINES.
GASKET SHALL HAVE A SEPARATE FINISH FINISH IN ACCORDANCE WITH ANSI B16.5.

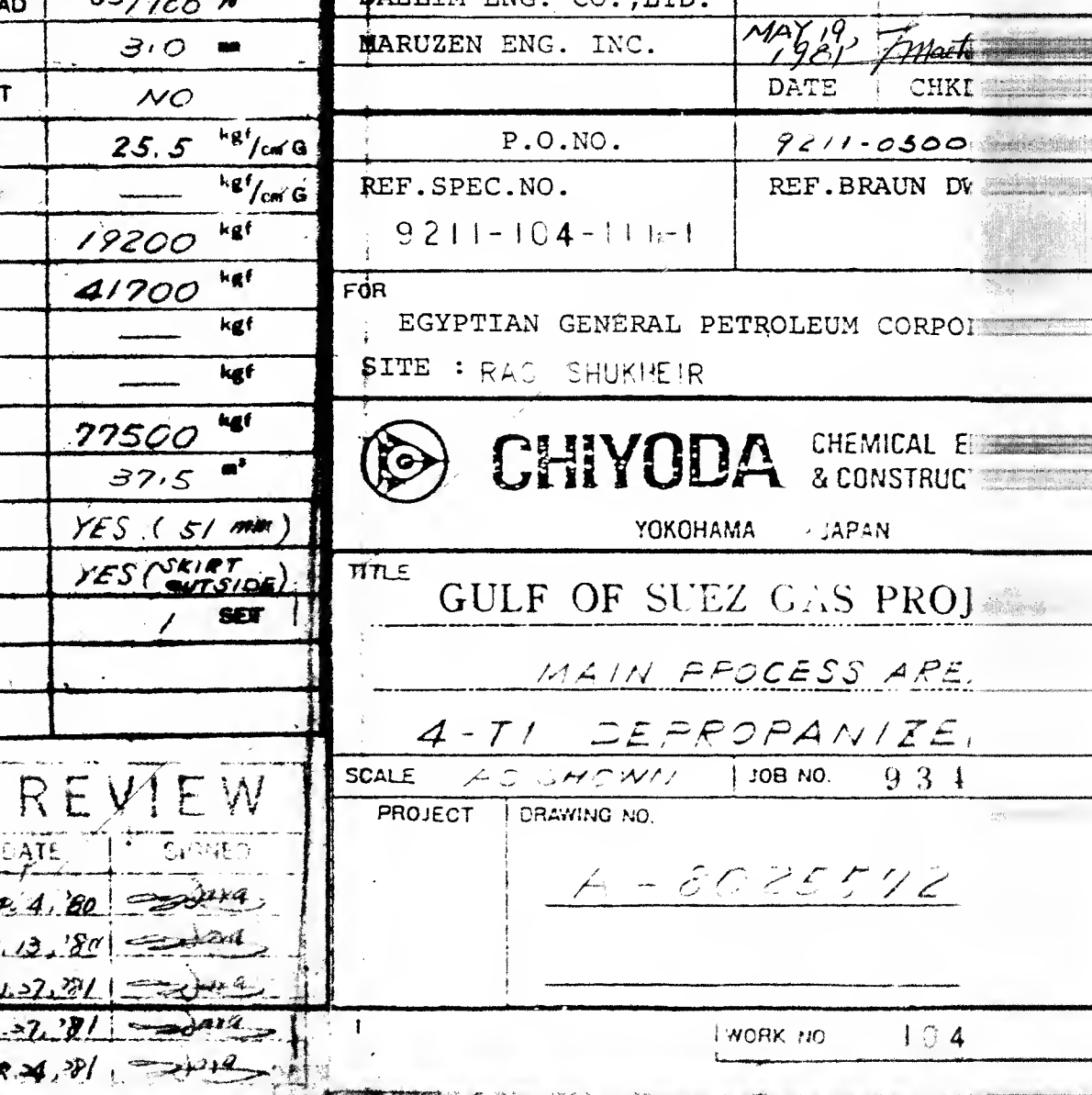
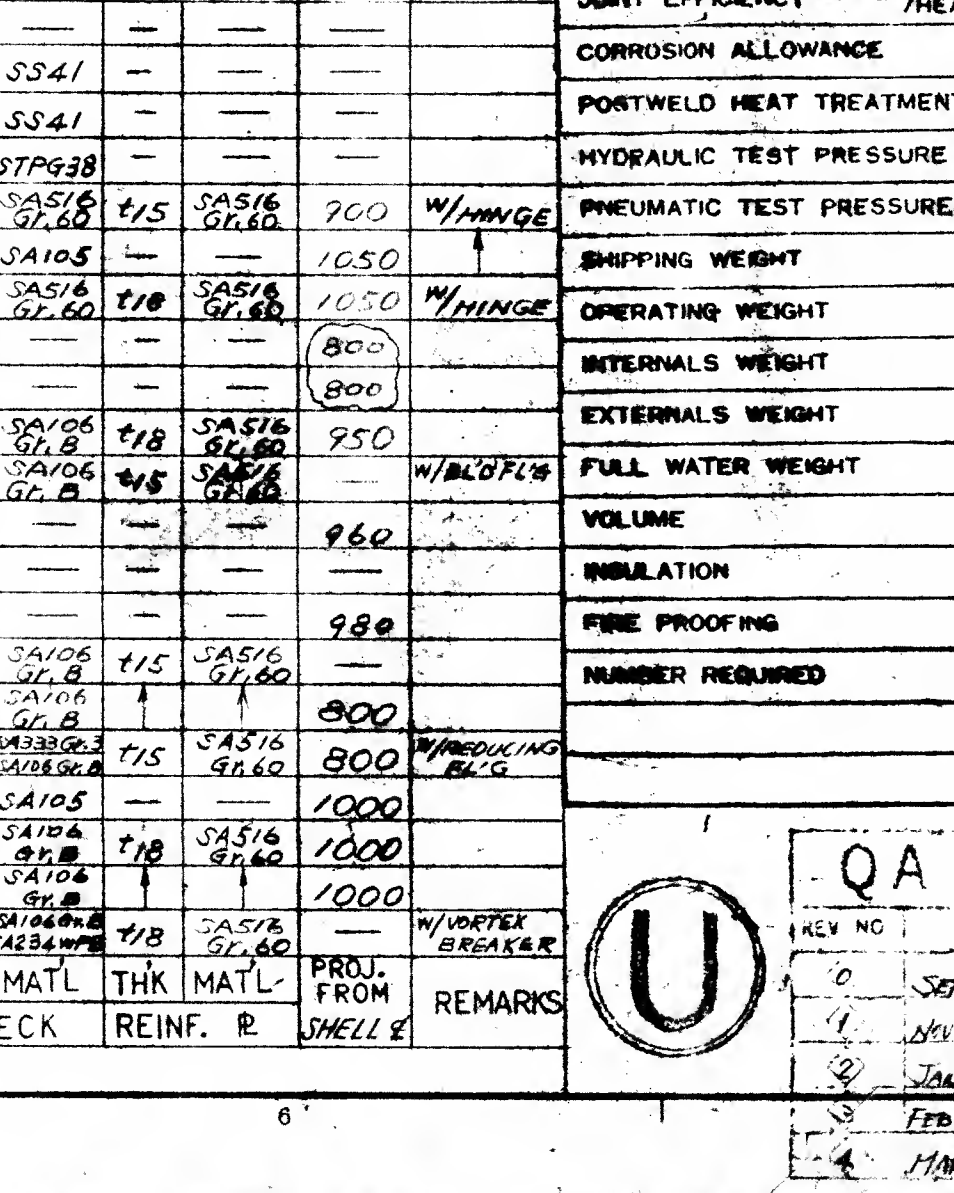
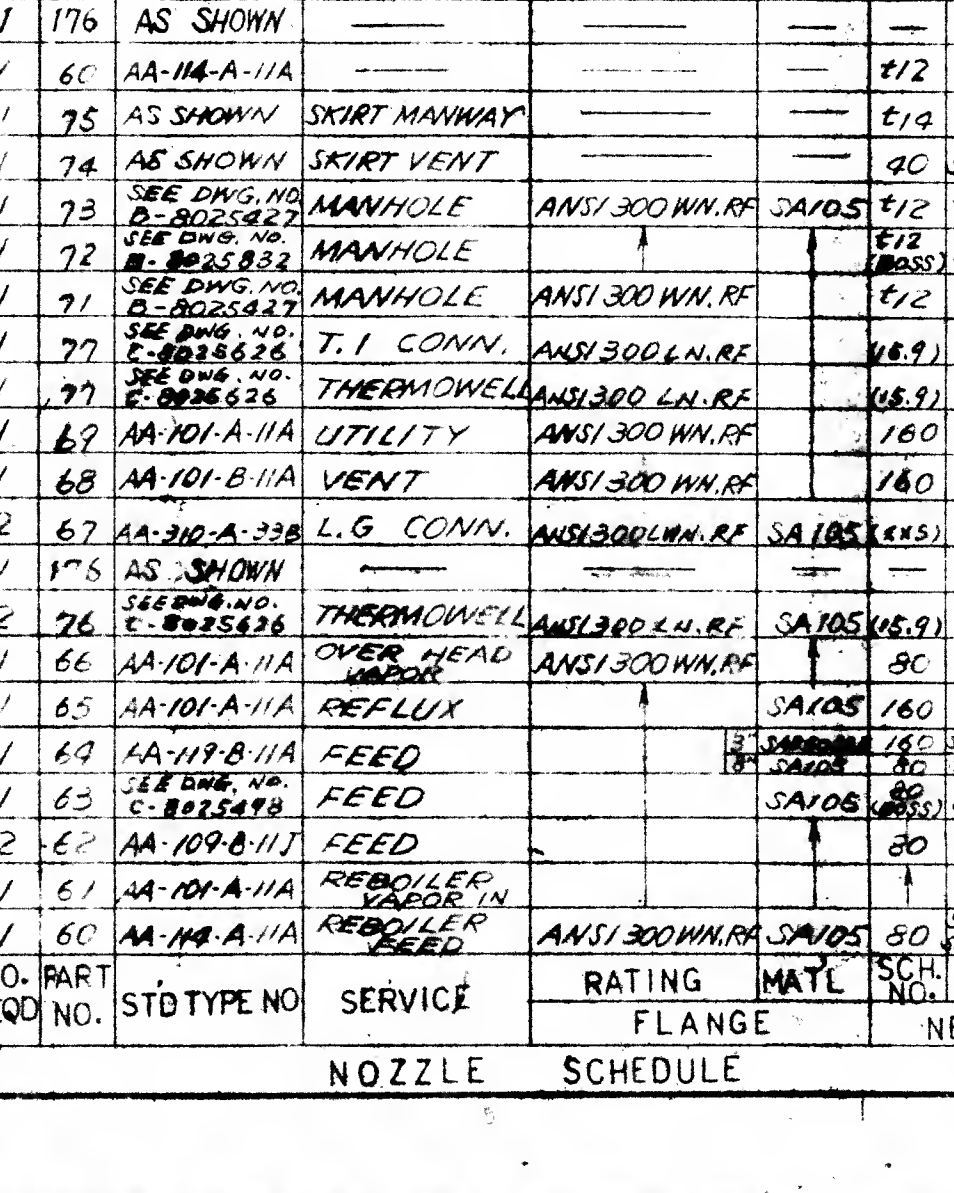
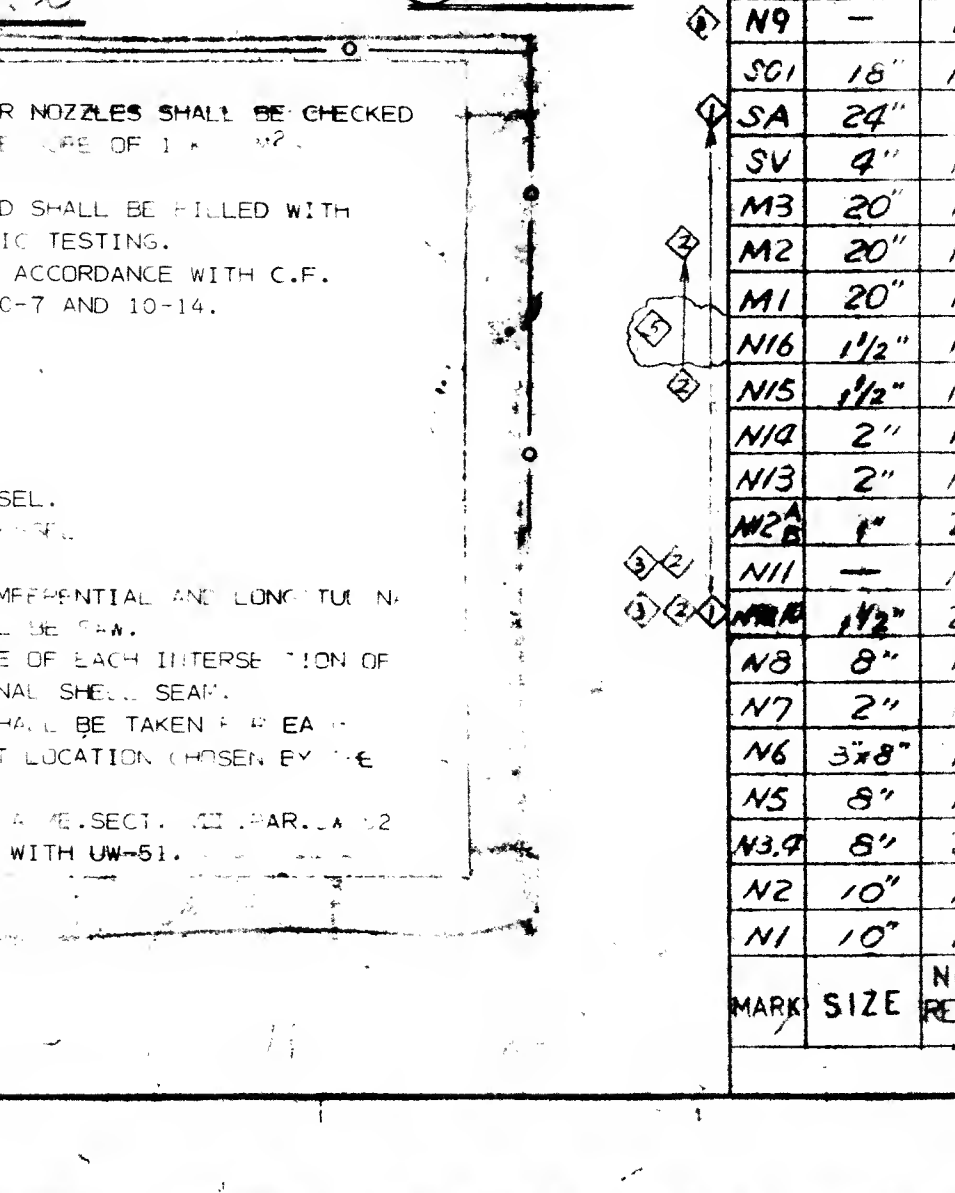
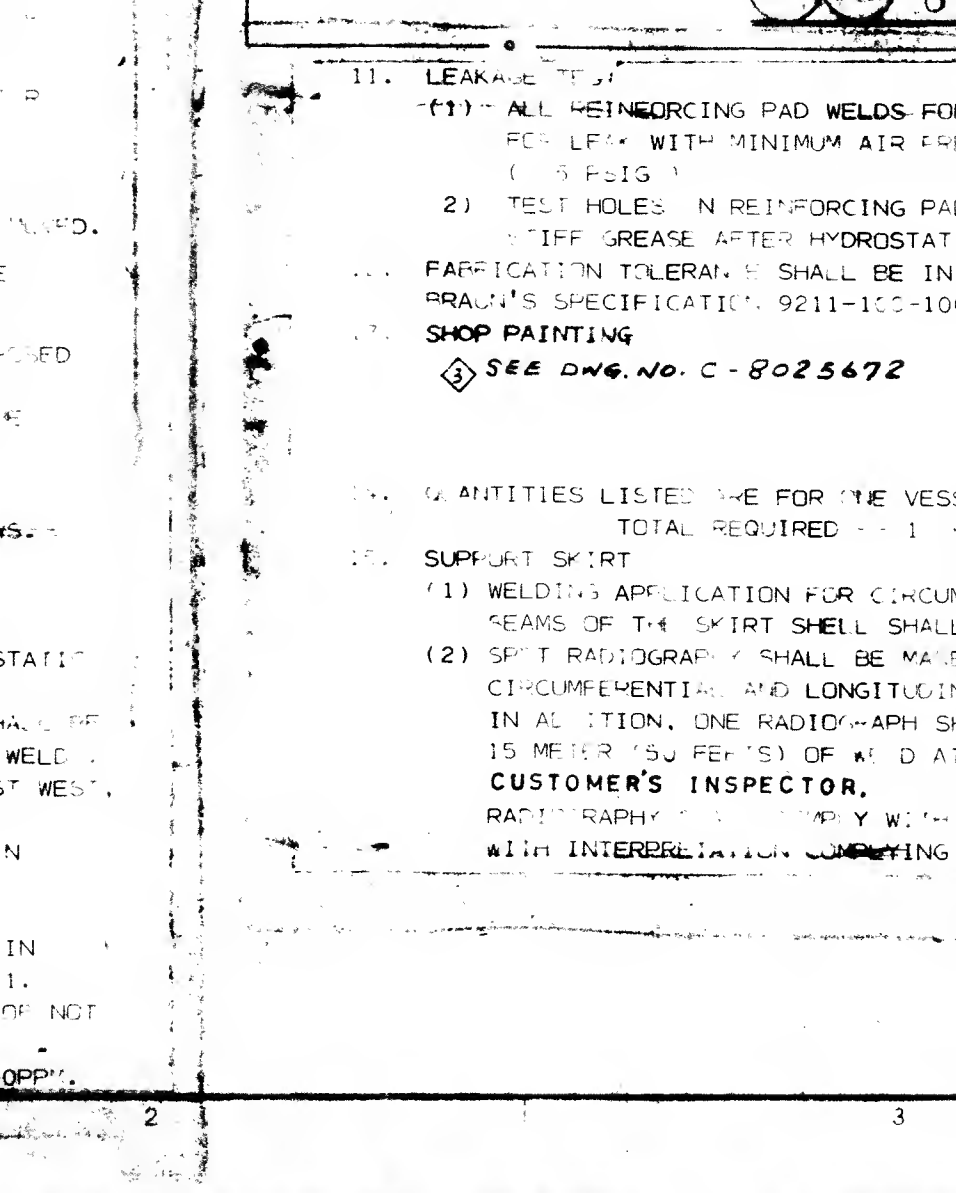
6. HYDROSTATIC PRESSURE TEST
(1) HYDROSTATIC PRESSURE TEST SHALL BE CARRIED OUT IN ACCORDANCE WITH UW-99(b) OF ASME SECT. VIII DIV. 1.
(2) TEST VESSEL SHALL BE MAINTAINED FOR A PERIOD OF NOT LESS THAN HALF AN HOUR.
(3) MAX. FILL CONTENTS OF WATER SHALL NOT EXCEED 3000PPM.



1. LEAKAGE TEST
(1) ALL REINFORCING PAD WELDS FOR NOZZLES SHALL BE CHECKED FOR LEAKS WITH MINIMUM AIR PRESSURE OF 10 PSIG.
(2) TEST HOLES IN REINFORCING PAD SHALL BE FILLED WITH GREESE AFTER HYDROSTATIC TESTING.
FABRICATION TOLERANCE SHALL BE IN ACCORDANCE WITH C.P. BRAUN'S SPECIFICATION 9211-100-100-7 AND 10-14.
SHOP PAINTING
SEE DWG. NO. C-8025472

2. QUANTITIES LISTED ARE FOR THE VESSEL.
TOTAL REQUIRED --- 1 ---

3. SUPPORT SKIRT
(1) WELDING APPLICATION FOR CIRCUMFERENTIAL AND LONGITUDINAL SEAMS OF THE SKIRT SHALL BE AS FOLLOWS:
(2) SPOT RADIOGRAPHY SHALL BE MADE OF EACH INTERSECTION OF CIRCUMFERENTIAL AND LONGITUDINAL SEAM.
IN ADDITION, ONE RADIOGRAPH SHALL BE TAKEN AT EACH 15 METER (50 FEET) OF WELD AT LOCATION CHOSEN BY THE CUSTOMER'S INSPECTOR.
RADIOGRAPHY SHALL BE IN ACCORDANCE WITH ASME SECT. VIII DIV. 1 WITH INTERPRETATION CORRESPONDING WITH UW-51.



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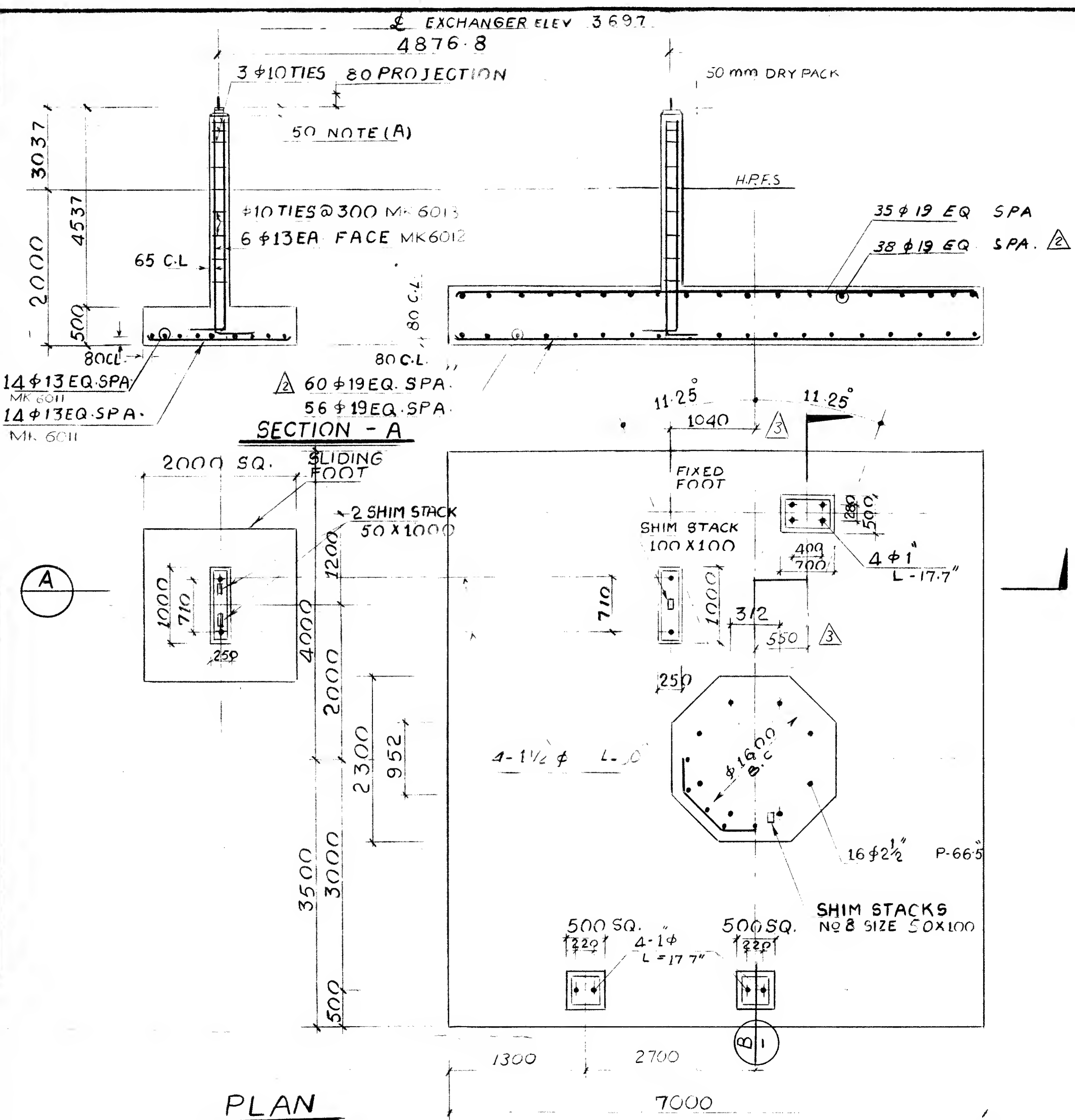
148. NOZZLE SCHEDULE

149. NOZZLE SCHEDULE

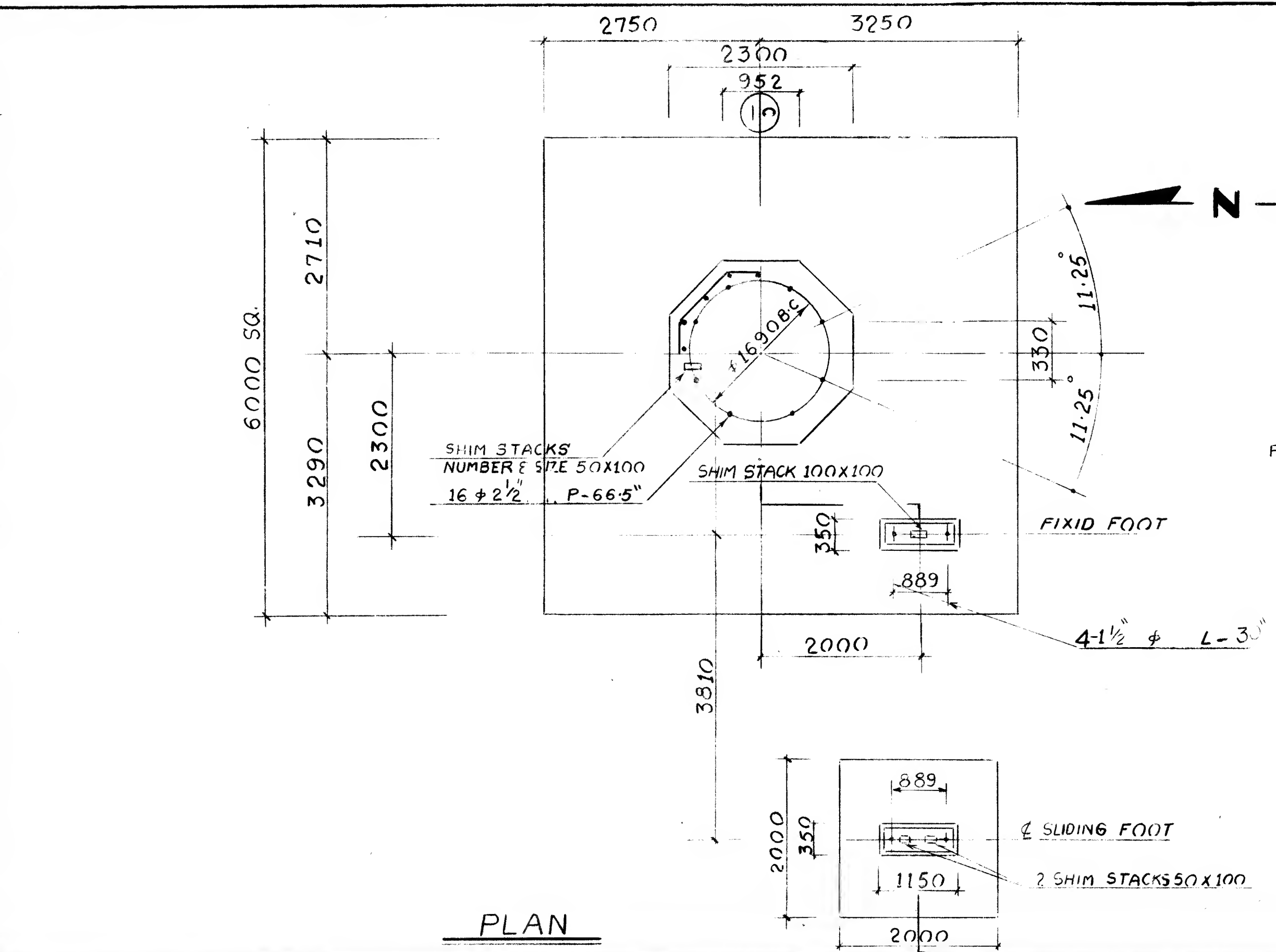
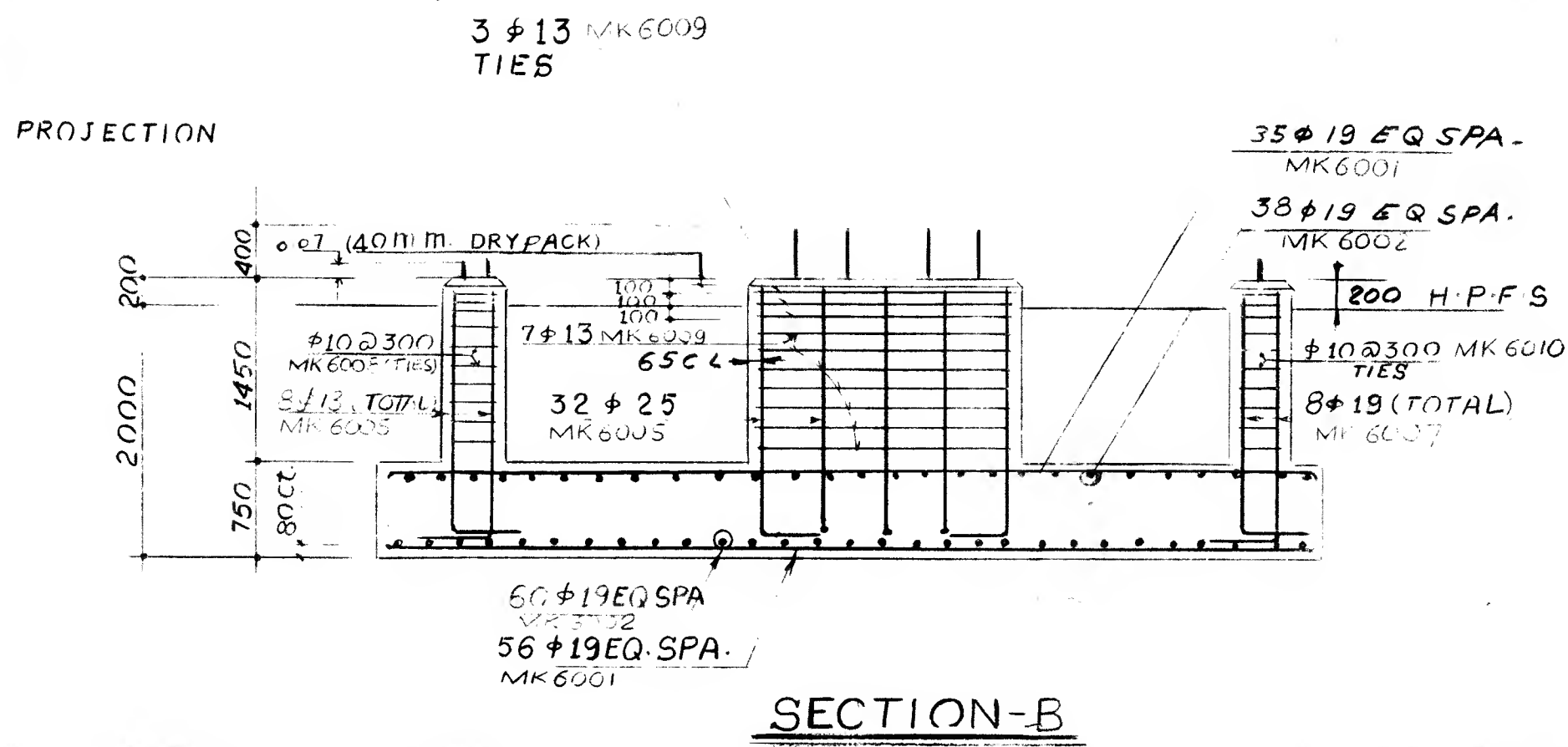
150. NOZZLE SCHEDULE

151. NOZZLE SCHEDULE

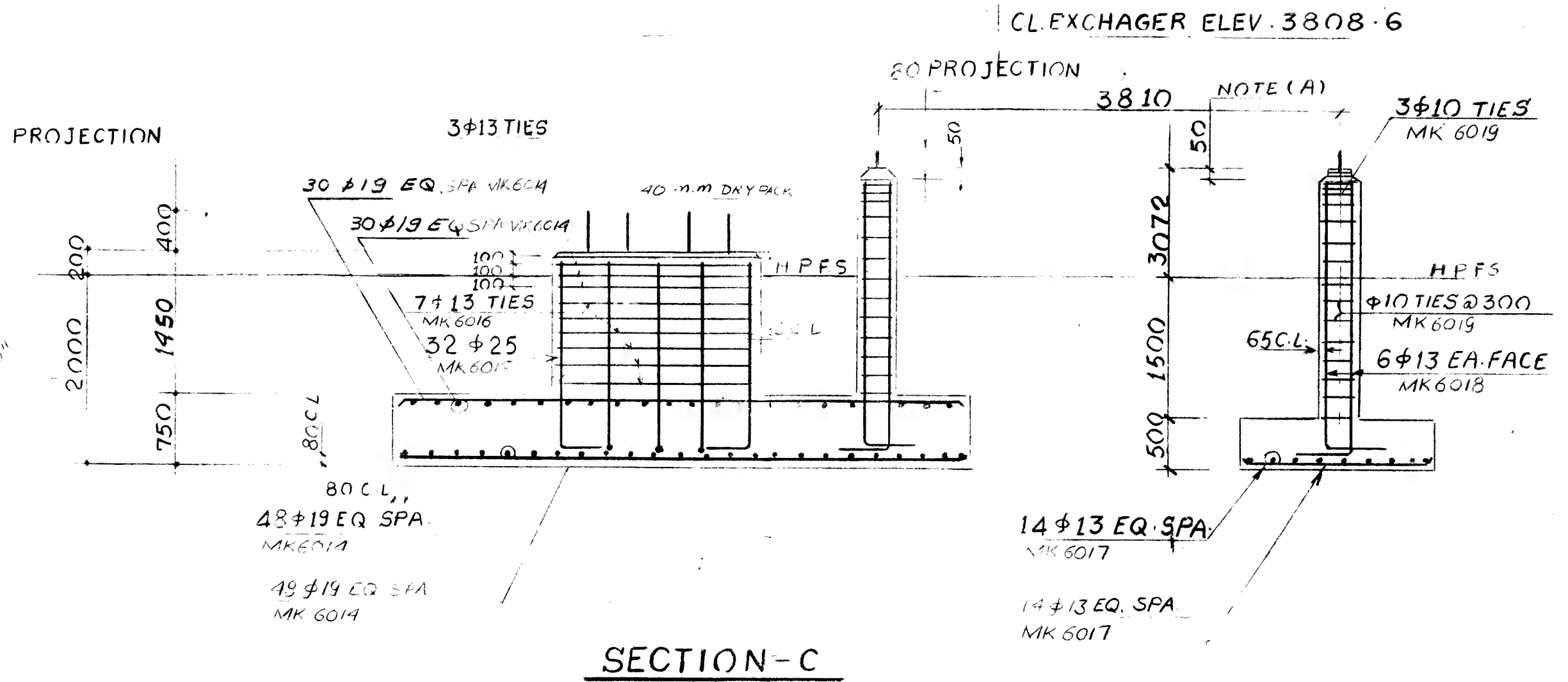
152. NOZZLE SCHEDULE



FOUNDATION FOR 4-T2 & 4-E13



FOUNDATION FOR 4-T1 & 4-E10



NUMBER	REFERE
9211-100-300-2	CONCRETE
9211-100-300-6	CONCRETE ACCESS
9211-100-300-7	SHIM & GROUTING
9211-104-FE-11	FOUNDATION LOCAT PROCESS AR
C-8025410	4-T1 DEPROPAN
C-8025411	4-T2 DEBUTANIZE
9211-B-104 FD-60	SOIL REPOF BAR LIST

NOTES:-

- 1- ALL DIMENSIONS ARE IN MM
 - 2- LEVELS ARE RELATED TO HIGH POINT OF SURFACE (HPFS) = ELEV. (± 00)
 - 3- CONCRETE USED FOR FOOTING CLASS
 - 4- CONCRETE FOOTING TO BE UNDERLAID CLASS 10 CONCRETE BLINDING.
 - 5- FOR 4-E13 & 4-E10 BEARING PLATE SHALL BE 25 MM LARGER THAN THE APP. AND THICKNESS SHALL BE 10 MM.
 - 6- TEFLON SHEETS SHALL BE WITH A MINIMUM THICKNESS OF 2.5 MM, AND DIMENSIONS THAN APPARATUS BASE DIMENSIONS.
- NOTE: A 50 MM DIMENSION INCLUDES SHIMS, BE TEFLON SHEETS AND DRYPACK.

ESTIMATED MATERIAL	REVISI			
	1	2	3	4
CONCRETE CLASS A. M ³	85	+112	0	
BARS DIA # 10 TON	0.2	+0.1	0	
BARS DIA # 13 TON	0.2	+0.3	0	
BARS DIA # 19 TON	550	0	0	
BARS DIA # 25 TON	0.7	0	0	
2 1/2" P-66.5 ANCH BOLTS	32	0	0	
1 1/2" L-30 ANCH BOLTS	8	0	0	
100x100 MM SHIM STACKS	14	-12	0	
50x100 MM SHIM STACKS	4	+16	0	
1" L-17.7 ANCH BOLTS	-	+8	0	

3	6-17	REVISED AS SHOWN	NAD	A	1.S
2	3-18	REVISED AS SHOWN	NAD	A	S
1	1-19	ISSUED FOR CONSTRUCTION	NAD	A	1.S
0	1-20	ISSUED FOR APPROVAL	NAD	A	1.S

REV	DATE	DESCRIPTION	BY	CHECK	APPROVED
BY	M.S.	DATE 12-18-80			
DESIGNED	M.H.	DRAWN	N.H.	REVIEWED	A.S.
FOR E G P C					
AT RAS SHUKHEIR					

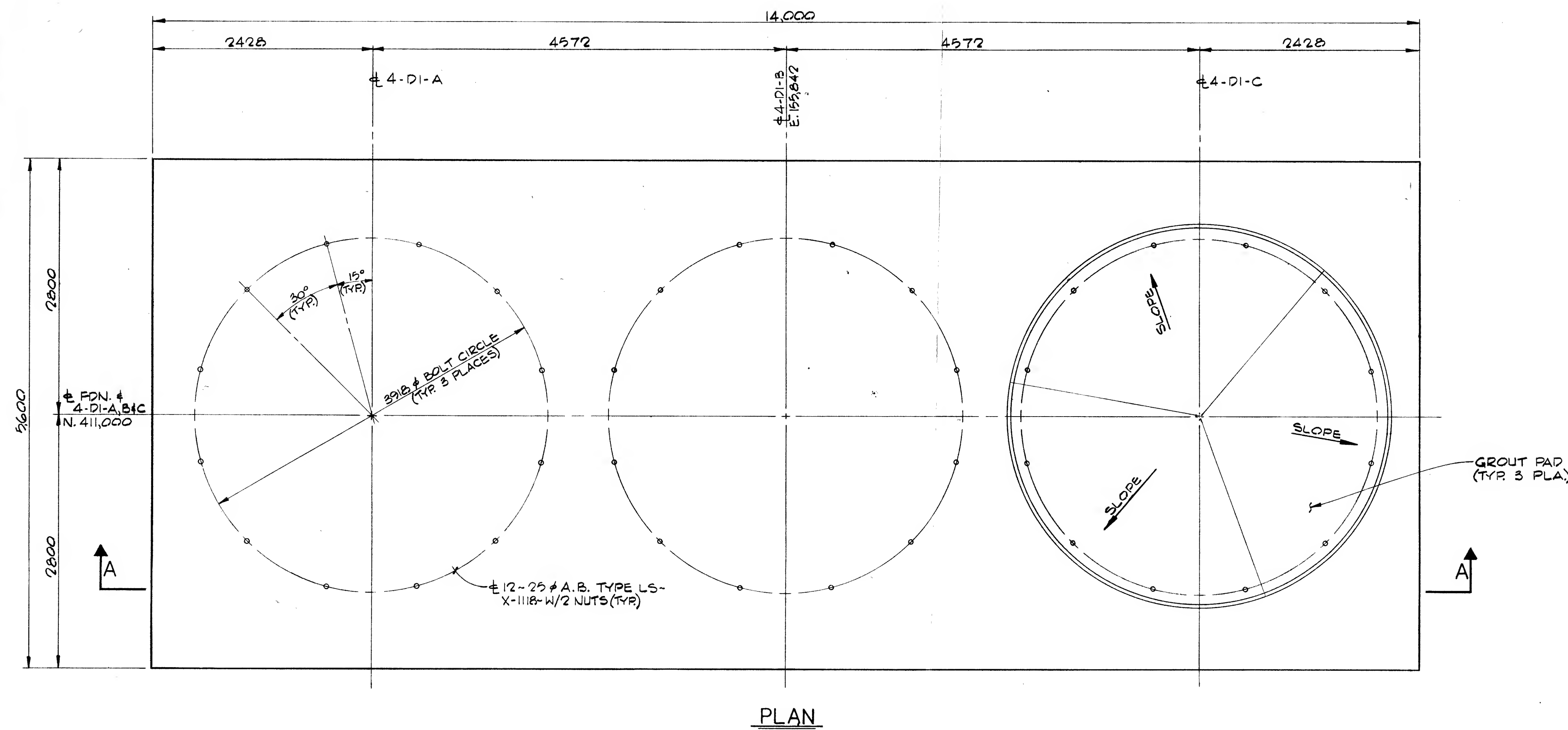
GULF OF SUEZ GAS PRO
MAIN PROCESS ARE
FOUNDATIONS FOR 4-T1
4-E10 AND 4-E13

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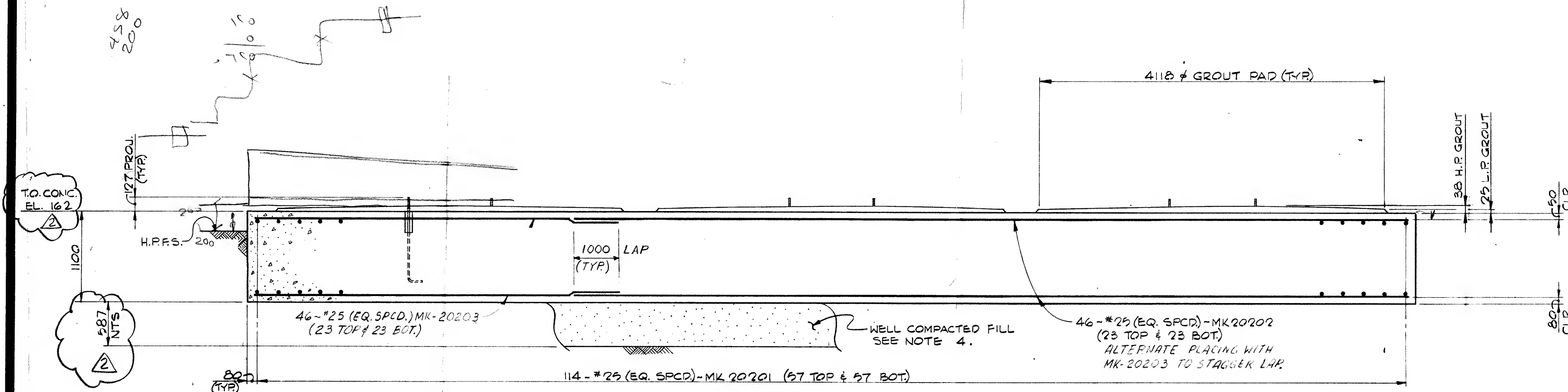
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE 1:50
DATE 10-13-1980
DRAWING NUMBER 9211-104-FD-6



PLAN



SECTION A-A

GENERAL NOTES:

1. FOR CONCRETE GENERAL NOTES SEE DRAWING 9211-104-FD-200
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. HIGH POINT FINISHED SURFACE (H.P.F.S.) = DATUM ELEV. 0.00 M. H.P.F.S. IS 19.51 METERS ABOVE MEAN SEA LEVEL.
4. FILL BELOW FOUNDATION TO BE WELL COMPACTED GRAVEL, COARSE SAND OR OTHER STABLE MATERIAL.
5. CONCRETE FOR FOUNDATION TO BE CLASS 'A'.
6. GROUT QUANTITY TO BE MEASURED IN FIELD.

ESTIMATED MATERIAL		REVISION			
		Δ	Δ	Δ	Δ
CONCRETE	(M³)	90.6			
BACKFILL	(M³)	47			
25 # ANCHOR BOLTS	(EA.)	36			
76 # x 754 LG. BOLT SLEEVES	EA.	36			
REBAR	(METRIC TONS)	5.8			

REFERENCE DRAWINGS

- 9211-104-FD-200 CONCRETE GENERAL NOTES
 9211-104-FD-201 FOUNDATION LOCATION PLAN
 B-9211-104-FD-220 REBAR SCHED. FOR DRIERS 4-DI-A,B & C
 FOUNDATION
 9211-104-SD-207 ANCHOR BOLT DETAILS

APPROVED A.I.O.C. HOUSTON

2	9/30	REVISED PER VENDOR DRWG							
1	9/10	ISSUED FOR CONSTRUCTION							
41	9/10	APPROVED FROM A.I.O.C.	RNS	D.L.D.	E.F.				
40	9/10	ISSUED FOR APPROVAL	RNS	D.L.D.	E.F.				
REV	DATE	DESCRIPTION	BY	CHECKED	DESIGNED	APPROVED			

NOTICE
 THIS DRAWING HAS NOT BEEN PUBLISHED IT IS THE SOLE PROPERTY OF ENPPI. IT IS LOANED TO THE CLIENT FOR HIS CONFIDENTIAL USE ONLY. AND UPON THE COMPLETION OF THE PROJECT, IT IS TO BE RETURNED TO ENPPI. ANY REUSE OR REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF ENPPI IS STRICTLY PROHIBITED. ANY VIOLATION OF THIS NOTICE SHALL BE CONSIDERED A BREACH OF CONTRACT AND SUBJECT TO LEGAL ACTION.

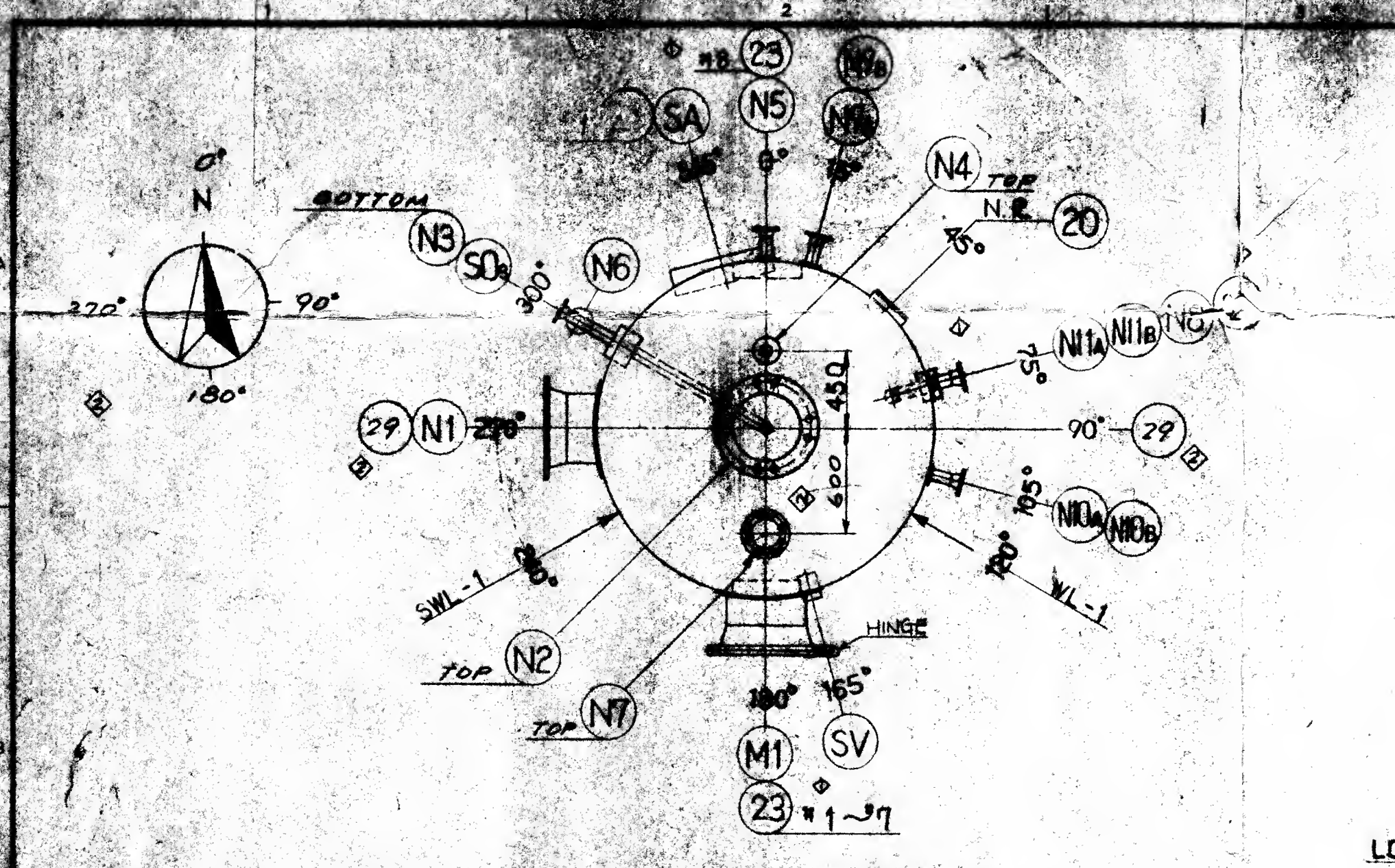
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BY: MMS	DATE: 9/17/81
DESIGNED: E.F.	DRAWN: R. SUTTON
REVIEWED: D.L.D.	APPROVED: [Signature]

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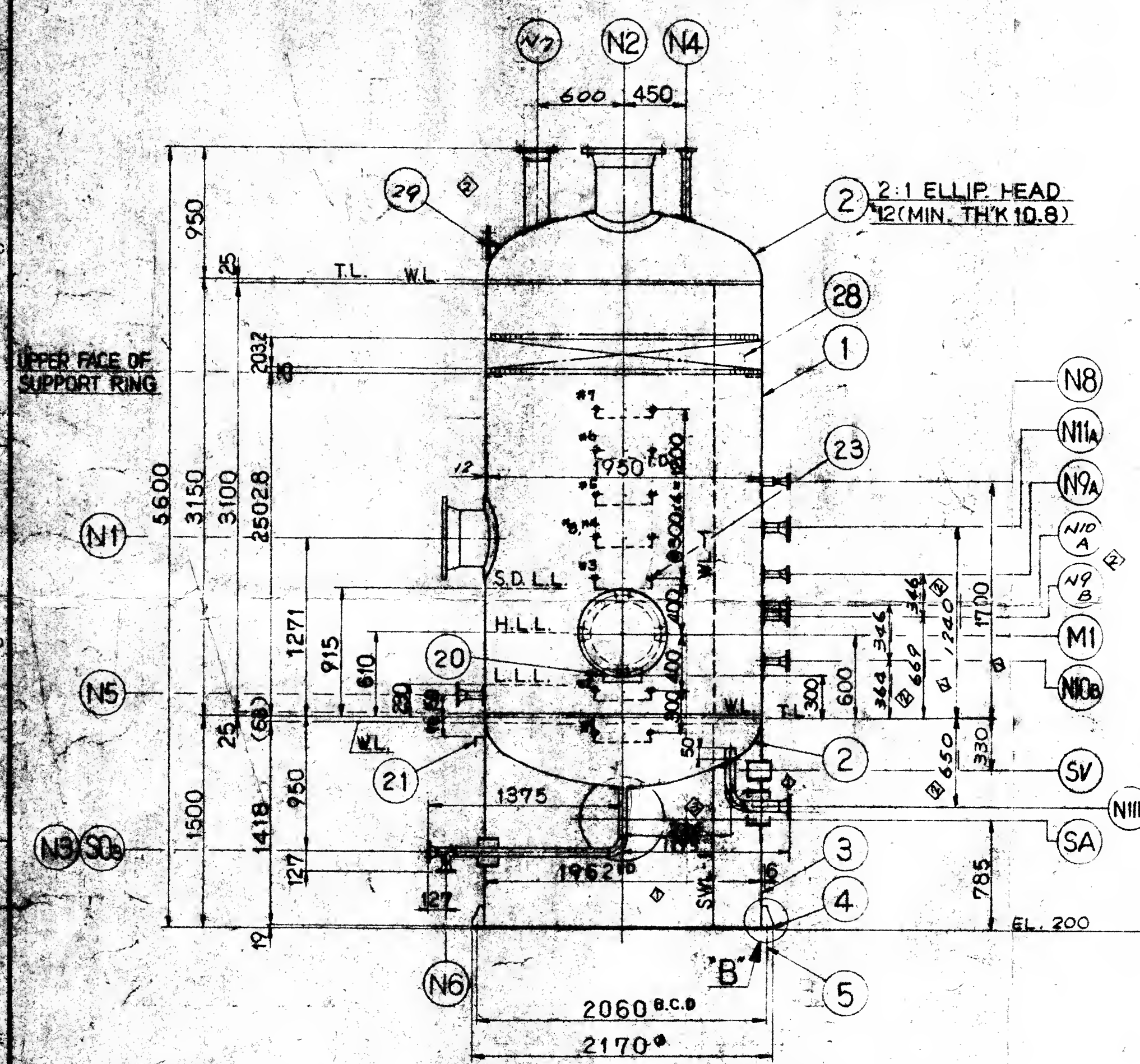
GULF OF SUEZ GAS PROJECT
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 ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

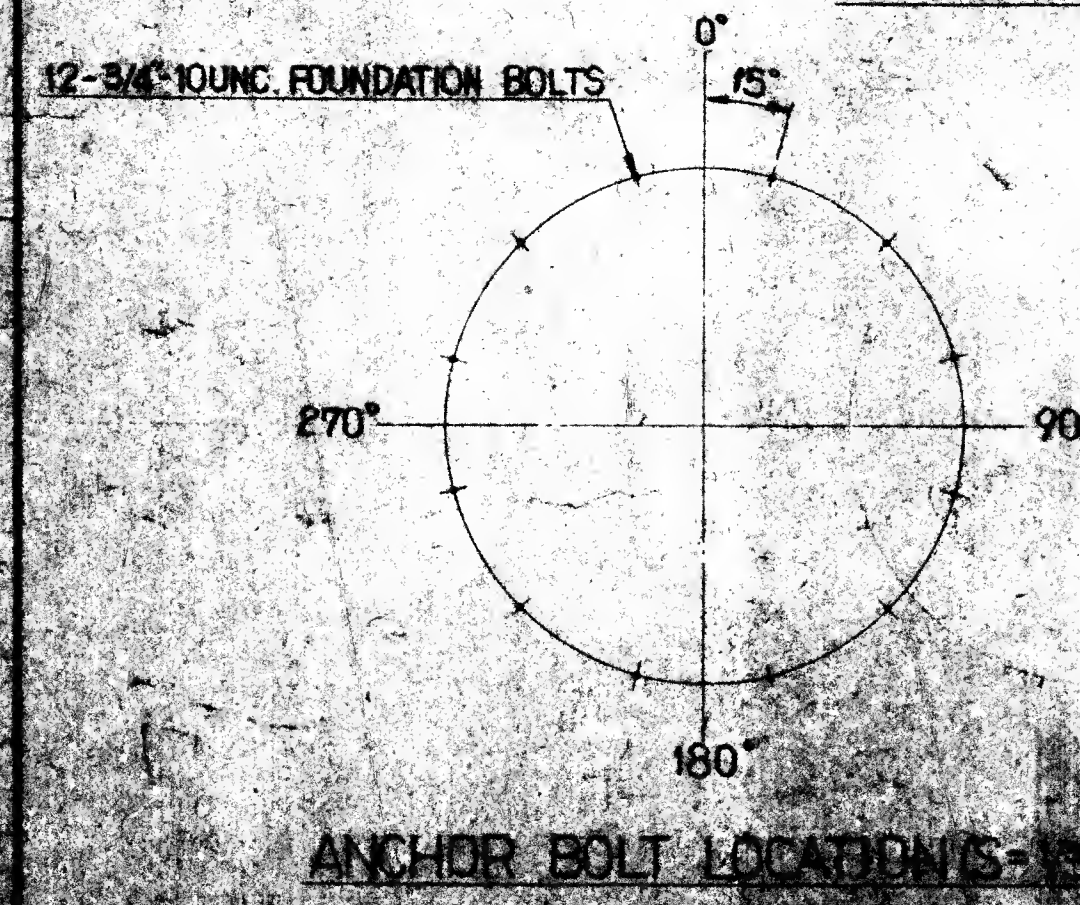
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DATE 9-20-81		



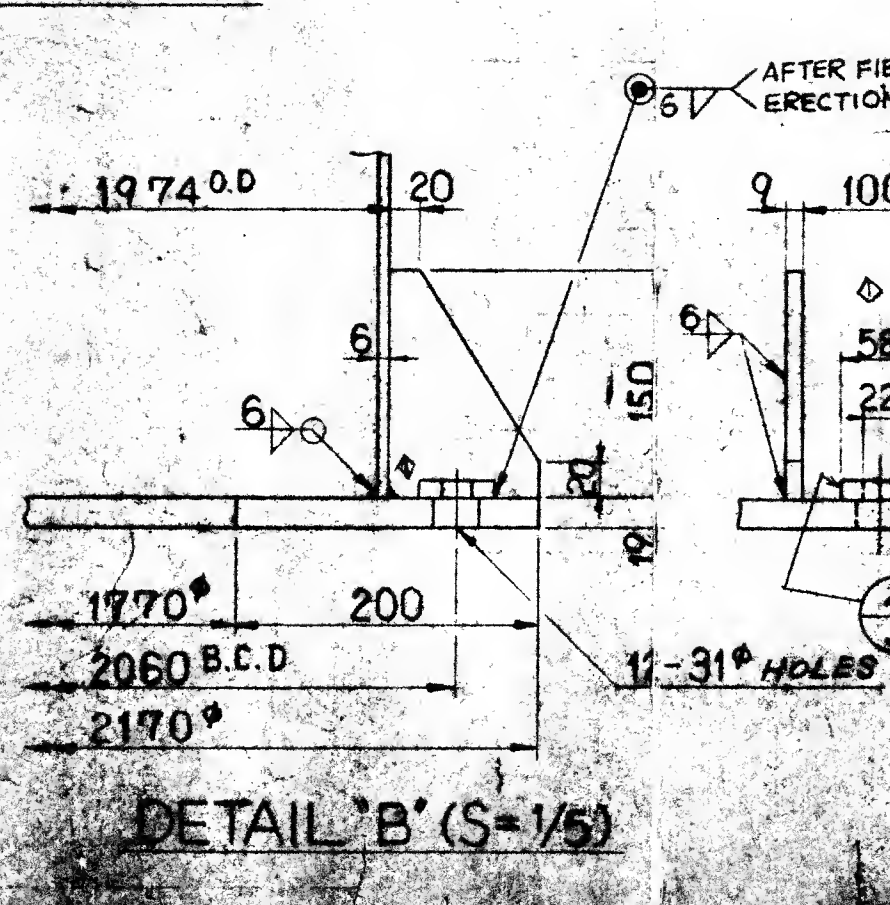
NOZZLE ORIENTATION (S=1/30)



ASSEMBLY (S=1/30)



ANCHOR BOLT LOCATION (S=1/30)



DETAIL 'B' (S=1/5)

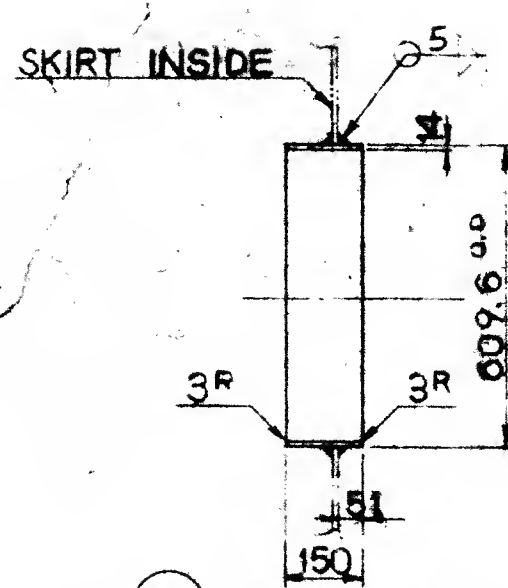
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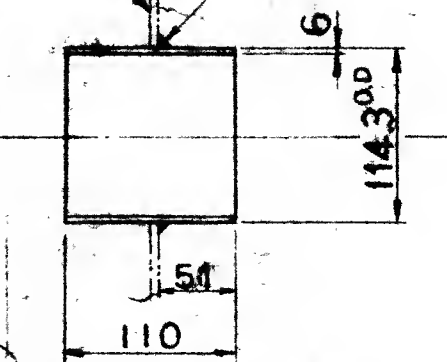
WELDING DETAIL (S=1/1) (73) DETAIL (S=1/5)

NO.	SIZE	NO. PART	ST'D TYPE NO.	SERVICE	RATING	MAT'L	THK	MAT'L	THK	PROJECT	REMARKS
SO11	6"	1	74	AA-114-B-11D	SKIRT OPEN	—	—	40	STPG38	—	—
N11B	2"	1	74	AA-114-B-11D	BRIDLE	ANSI 150 WNR F	SA105	160	SA106GrB	*12	SA285GrC 1175
SO3	6"	1	62	AA-115-A-11A	SKIRT OPEN	—	—	40	STPG38	—	—
SA	24"	1	73	AS SHOWN	SKIRT ACCESS	—	—	44	SS41	—	—
SV	4"	1	72	AS SHOWN	SKIRT VENT	—	—	40	STPG38	—	—
M1	18"	1	71	SEE DWG. NO. 8-8025397	MANHOLE	ANSI 150 WNR F	SA105	*12	SA285GrC	*12	SA285GrC 1275
N11A	2"	1	70	AA-101-A-11A	BRIDLE	ANSI 150 WNR F	—	160	SA106GrB	*12	SA285GrC 1175
N10B	2"	1	69	AA-101-A-11A	LEVEL SWITCH H.	ANSI 150 WNR F	—	160	SA106GrB	*12	SA285GrC 1175
N9B	2"	1	66	AA-101-A-11A	LEVEL SWITCH H.H	ANSI 150 WNR F	—	160	SA106GrB	*12	SA285GrC 1175
N8	1"	1	67	AA-310-A-33A	PRESS. INDIC.	ANSI 150 WNR F	—	—	—	—	1175
N7	6"	1	66	AA-101-B-11A	SAFETY VALVE	ANSI 150 WNR F	—	80	SA106GrB	*12	SA285GrC AS SHOWN
N6	2"	1	62	AA-115-A-11A	DRAIN	—	—	160	SA106GrB	*12	SA285GrC 1175
N5	1 1/2"	1	64	AA-101-A-11A	UTILITY	—	—	160	SA106GrB	*12	SA285GrC 1175
N4	1 1/2"	1	63	AA-101-B-11A	VENT	—	—	160	SA106GrB	*12	SA285GrC 1175
N3	2"	1	62	AA-115-A-11A	COND. OUTLET	—	—	160	SA106GrB	*12	SA285GrC 1175
N2	16"	1	61	AA-101-A-11A	VAPOR OUTLET	—	—	160	SA106GrB	*12	SA285GrC 1175
N1	16"	1	60	AA-101-A-11A	VAPOR INLET	ANSI 150 WNR F	SA105	*12	SA285GrC	*12	SA285GrC 1275

(23) DETAIL (S=1/8)



SKIRT INSIDE

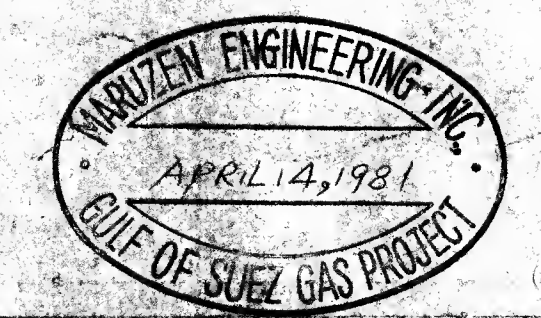


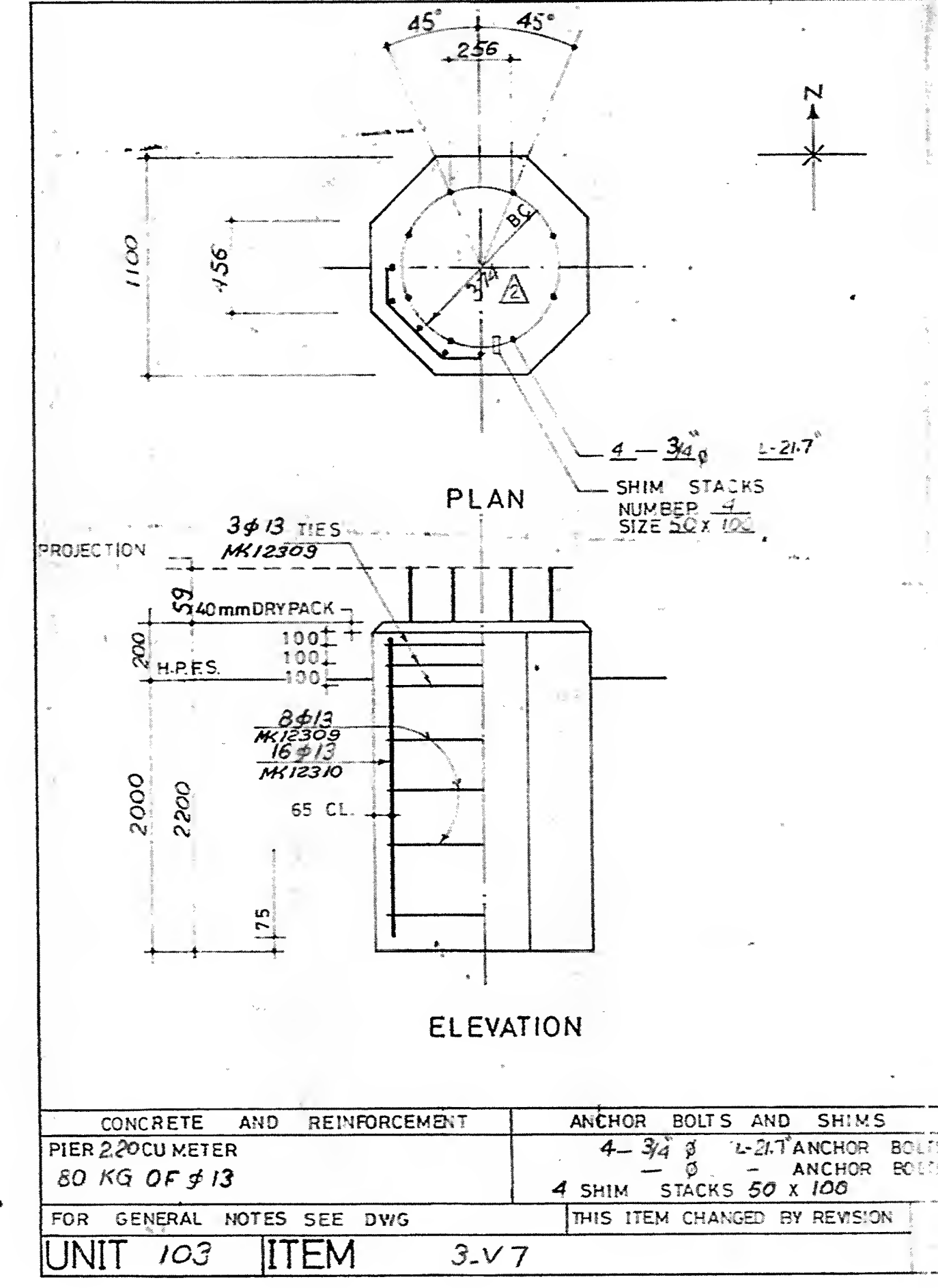
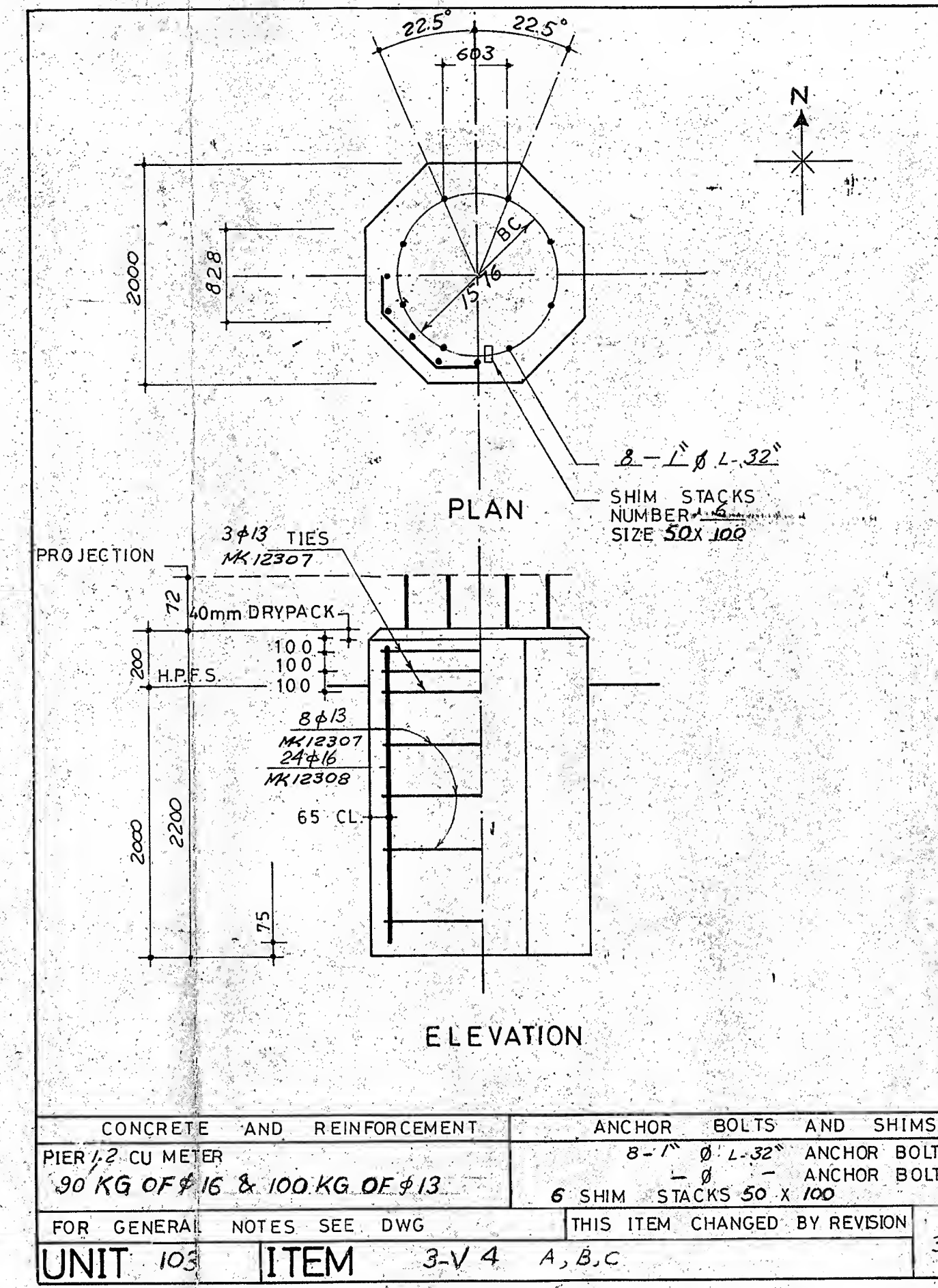
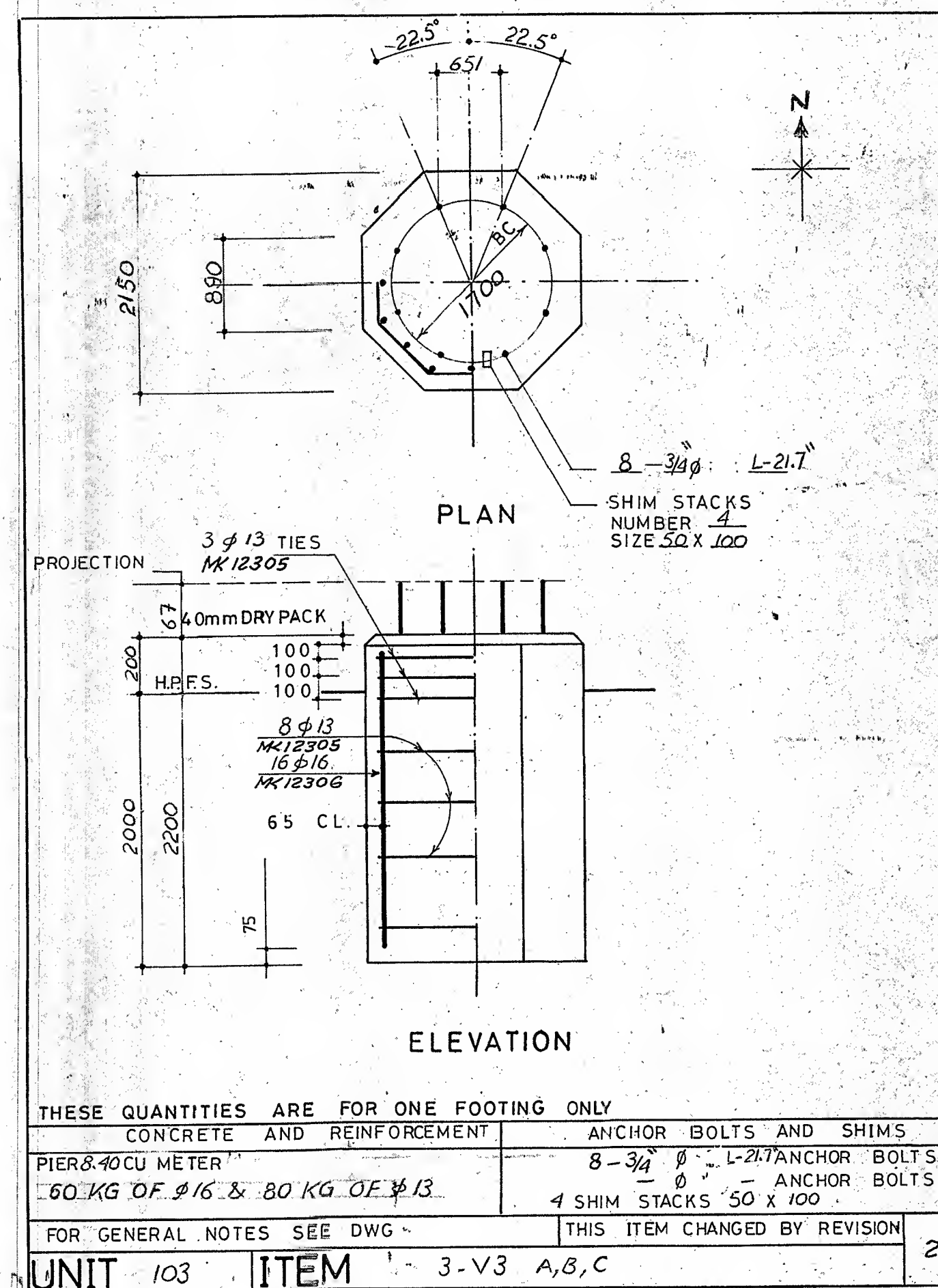
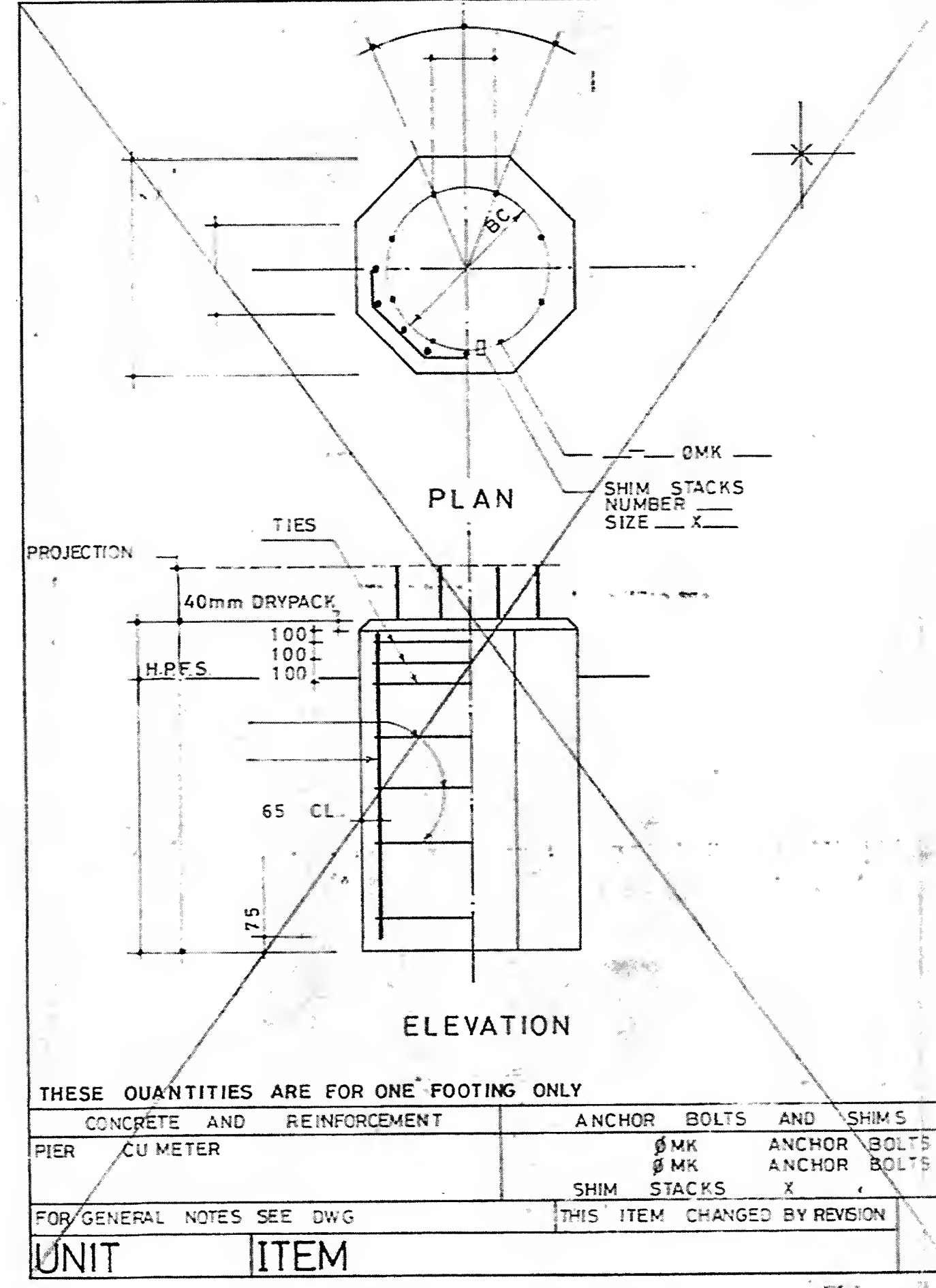
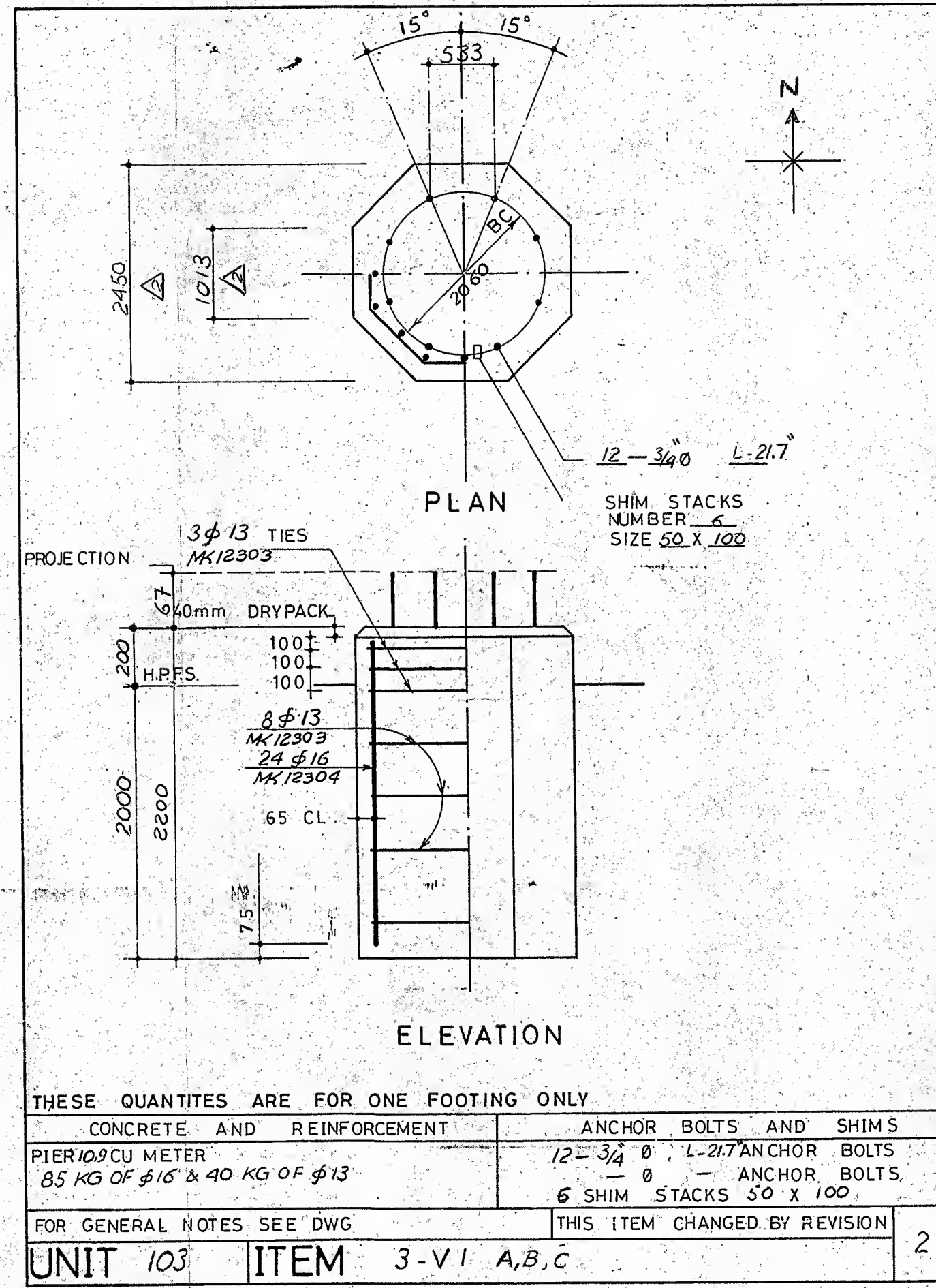
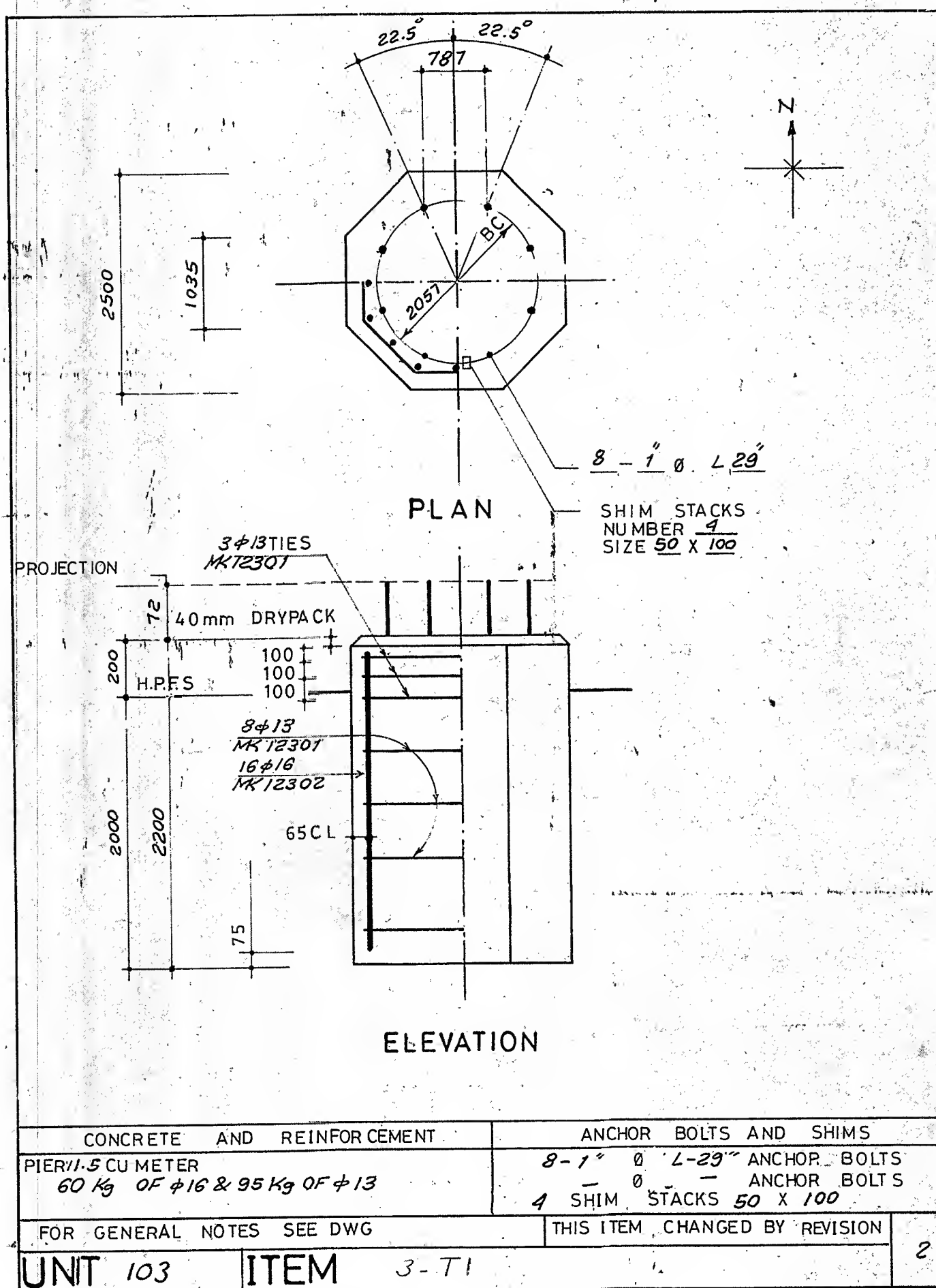
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REV NO.	DATE	SIGNED
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2	OCT 7, 80	[Signature]
3	DEC 6, 80	[Signature]
4	FEB 27, 81	[Signature]

REGULATION	CODE	FLUID NAME	OPERATING PRESSURE	OPERATING TEMPERATURE	DESIGN PRESSURE	DESIGN TEMPERATURE	RADIOGRAPHY	SHELL/HEAD	JOINT TYPE	JOINT EFFICIENCY	SHELL/HEAD	CORROSION ALLOWANCE	POSTWELD HEAT TREATMENT	HYDRAULIC TEST PRESSURE	PNEUMATIC TEST PRESSURE	SHIPPING WEIGHT	OPERATING WEIGHT	INTERNAL WEIGHT	EXTERNAL WEIGHT	FULL WATER WEIGHT	VOLUME	INSULATION	FIRE PROOFING	NUMBER REQUIRED
ASME SECTION VIII	ASME SECTION VIII	LIGHT HYDROCARBON GAS	0.9	30	29.8	60	SPOT (SEE NOTE 3)	SPOT	DOUBLE WELDED BUTT JOINT	85/100%	85/100%	3.0	NO	4.4	—	3500	10500	—	—	19200	11.34	NO	YES (SKIRT)	3

- APPLICABLE CODE
ASME BOILER AND PRESSURE VESSEL CODE SECTION VIII
DIVISION 1, 1977 EDITION INCLUDING 1979 SUMMER ADDENDA.
- WELDING MATERIAL
(1) SMAW - SFAS.1 E-7016 - TRADE NAME LB-52
(2) GTAW - ———— - TRADE NAME TGS-50
(3) SAW - SFAS.17 F76-EH14 - TRADE NAME MF38-US36
- RADIOGRAPHIC EXAMINATION FOR WELD
IN ADDITION TO SPOT RADIOGRAPHY PER UW-11(b), HEAD TO SHELL JOINT SHALL BE PARTIALLY RADIOGRAPHED PER UW-11(a)(5)(b).
- WELD HARDNESS
(1) HARDNESS TEST SHALL BE CARRIED OUT AND HARDNESSES SHALL NOT EXCEED HB 200.
(2) THE NUMBER AND LOCATION OF HARDNESS TEST SHALL BE AS FOLLOWS:
• ONE FOR EACH 10 FEET, OR FRACTION THEREOF, FOR EACH LONGITUDINAL SEAM.
• ONE FOR EACH 10 FEET, OR FRACTION THEREOF, FOR EACH CIRCUMFERENTIAL SEAM.
• ONE FOR EACH NOZZLE TO SHELL WELD
• ONE FOR EACH AREA WHERE TEMPORARY WELD WAS REMOVED.
• LOCATION TO BE TESTED SHALL BE AT OR NEAR THE CENTER OF THE WELD.
• SURFACE TO BE TESTED SHALL BE ON THE SIDE EXPOSED TO THE PROCESS ENVIRONMENT.
WHERE NOT PRACTICAL, TEST SHALL BE MADE ON THE OPPOSITE SIDE.
- VESSEL AND ITS SUPPORT ARE CAPABLE OF A FIELD HYDROSTATIC TEST.
- EXTERNAL ATTACHMENTS WHOSE WELD CROSS VESSEL SEAM SHALL BE CUT OUT LOCALLY SO AS TO AVOID INTERSECTION OF EACH WELDS.
- FLANGE BOLT HOLES SHALL STRADDLE THE VERTICAL OR EAST-WEST, NORTH-SOUTH HORIZONTAL CENTER LINES.
- GASKET SURFACE SHALL HAVE A SERRATED FACING FINISH IN ACCORDANCE WITH ANSI B16.5.
- HYDROSTATIC PRESSURE TEST
(1) HYDROSTATIC PRESSURE TEST SHALL BE CARRIED OUT IN ACCORDANCE WITH UG-99(b) OF ASME SECT. VIII DIV. 1.
(2) TEST PRESSURE SHALL BE MAINTAINED FOR A PERIOD OF NOT LESS THAN HALF AN HOUR.
(3) CHLORIDE CONTENTS OF WATER SHALL NOT EXCEED 3000PPM.
- LEAKAGE TEST
(1) ALL REINFORCING PAD WELDS FOR NOZZLES SHALL BE CHECKED FOR LEAK WITH MINIMUM AIR PRESSURE OF 1 KG/CM² (15 PSIG)
(2) TEST HOLES ON REINFORCING PAD SHALL BE FILLED WITH STIFF GREASE AFTER HYDROSTATIC TESTING.
- FABRICATION TOLERANCE SHALL BE IN ACCORDANCE WITH C.F. BRAUN'S SPECIFICATION 9211-100-100-7.
- SHOP PAINTING
SEE DWG. NO. C-8025674
- DEMISTER SHALL BE ASSEMBLED AT SHOP BEFORE SHIPPING.
- QUANTITIES LISTED ARE FOR ONE VESSEL.
TOTAL REQUIRED - 3 VESSELS
- SUPPORT SKIRT
(1) WELDING APPLICATION FOR CIRCUMFERENTIAL AND LONGITUDINAL SEAMS OF THE SKIRT SHALL BE SAW.
(2) SPOT RADIOGRAPHY SHALL BE MADE OF EACH INTERSECTION OF CIRCUMFERENTIAL AND LONGITUDINAL SHELL SEAM.
IN ADDITION, ONE RADIOGRAPH SHALL BE TAKEN FOR EACH 15 METER (50 FEET) OF WELD AT LOCATION CHOSEN BY THE CUSTOMER'S INSPECTOR.
RADIOGRAPHY SHALL COMPLY WITH ASME SECTION VIII, PART UW-11, WITH INTERPRETATION COMPLYING WITH UW-51.





NUMBER	REFERENCE
9211-100-300-2	CONCRETE
9211-100-300-5	CONCRETE ACCESSORIES
9211-100-300-7	SHIM AND GROUTING
9211-8-103-FD-123	BAR LIST
9211-103-KE-301	PLOT PLAN

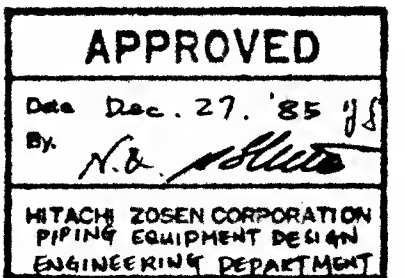
GENERAL NOTES	
1. HIGH POINT FINISHED SURFACE (H.P.F.S.) = ELEV. 26	
2. FOR LOCATION OF FOUNDATIONS SEE DRAWING 92	
3. EACH ITEM FOUNDATION IS ORIENTED BY INDIVIDUAL	
4. FOR DETAILS OF ANCHOR BOLTS SEE SPEC	
5. SOIL REPORT SHOULD BE STRICTLY FOLLOWED	
6. CONCRETE FOOTING ARE CLASS. A, CONCRETE USING	
RESISTING CEMENT	
7. CONCRETE, FOOTINGS TO BE UNDERLAID BY 100 MM	
CONCRETE BLINDING	

ESTIMATED MATERIAL	REVISION
RC (M ³)	30
REINFORCING BARS (TON)	1.3
3/4" L-21.7" ANCH. BOLTS	80
50 X 100 M.M SHIM STACKS	42
1" L-29" ANCH. BOLTS	0
1" L-32" ANCH. BOLTS	0

REVISION	DATE	DESCRIPTION	BY	CHECKED	APPROVED
1	12-25-01	3-V4 WAS CHANGED	N.H.	M.A.	S
2		REVISED AS SHOWN	N.H.	M.A.	S
3		ISSUED FOR CONSTRUCTION	N.H.	M.A.	S
4		ISSUED FOR APPROVAL	N.H.	M.A.	S

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ISSUED FOR CONSTRUCTION	CUSTOMER APPROVAL
BY M.S.	DATE 12-25-01
DESIGNED N.H.	DRAWN N.HALIM
FOR E.G.P.C.	REVIEWED M.K.
BY RAS SHUKHEIR	

GULF OF SUEZ GAS PRO.	
GUPCO GAS GATHERING STA	
VERTICAL VESSEL FOUNDATION	
3V	
الهيدروسيستيم للصناعات البتروليّة والكيمياويّة	
Enppi	
ENGINEERING FOR THE PETROLEUM AND PROCESS	
SCALE NONE	DRAWING NUMBER 9211-103-FD-1
DATE 11-1980	



DESIGN DATA		PART NO.		DESIGNATION		MATERIAL		MILL SHEET		QUANT		TOTAL QUANT		REMARKS	
CODE/REGULATION	ASME SEC.VI DIV.1 1963 EDITION UP TO & INCLUDING 1964 WINTER	5													
NO. REQ'D	1 (ONE)	4													
VOLUME	1	3													
DESIGN PRESSURE	11.5 kg/cm ² G	2													
DESIGN TEMPERATURE	165 °C	1													
OPERATING PRESSURE	8.4 kg/cm ² G														
OPERATING TEMPERATURE	131.9 °C														
HYDRO. TEST PRESSURE	17.3 kg/cm ² G														
PIEDMA. TEST PRESSURE	— kg/cm ² G														
POST WELD HEAT TREATMENT	NONE														
RADIOGRAPHED	SPOT														
JOINT EFFICIENCY	SHELL 0.85 HEAD 1.0														
CORR. ALLOWANCE	3.0 mm														
INSULATION	HOT NO. YES (30 mm)														
FIRE PROOF	NO. YES (50 mm)														
PAINTING	BY SPEC.														
ACCESSORY															
SPARE	GASKET 200% B.N. 20%														
WEIGHT: EMPTY	kg														
WEIGHT: OPERATING	kg														
WEIGHT: FULL WATER	kg														

U STAMP

Reviewed by QC
Date: Nov. 12 '85
T. Takahashi
● TOKUYAMA MACHINERY CO. LTD.

Approved By Design Section
Date: Nov. 12, 1985
[Signature]
Manager of Design Section

TM J03
M7
85- 2180

TM- 0558

Code No. DT-T102-40-001

CUSTOMER	HZ / EGPC
TMC JOB NO.	85-2180
MICRO	QUANT 1 (ONE)
APPR	DATE OCT. 23 '85
CHECK	SCALE 1/60
DRAWN	GROUP

TOKUYAMA MACHINERY CO. LTD.

GULF OF SUZ GAS PLANT PHASE II

DEBUTANIZER

4-T102

ASSEMBLY DRAWING

DWG. NO. **TS-1331-01**

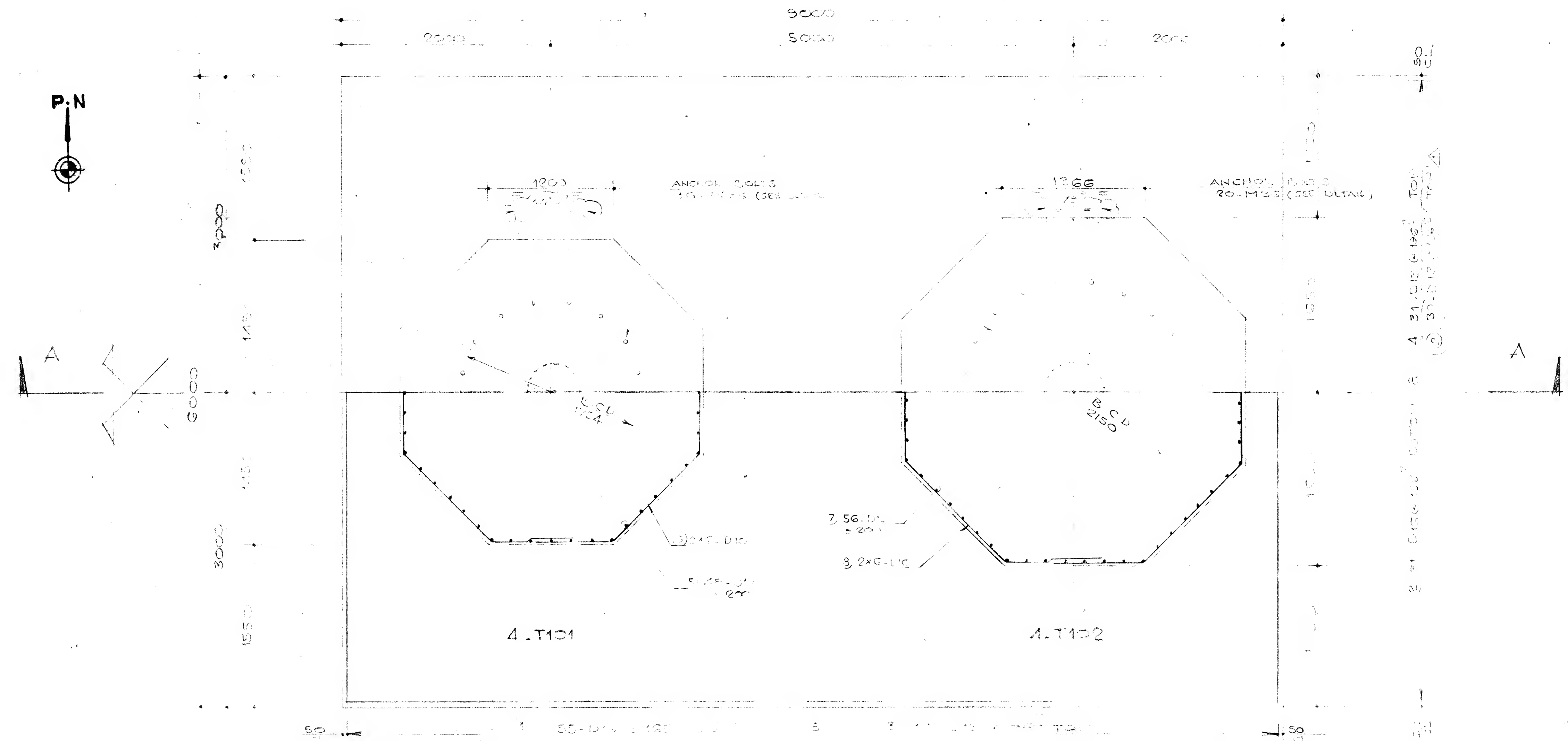
WEIGHT: EMPTY	kg
WEIGHT: OPERATING	kg
WEIGHT: FULL WATER	kg

REV. **1**

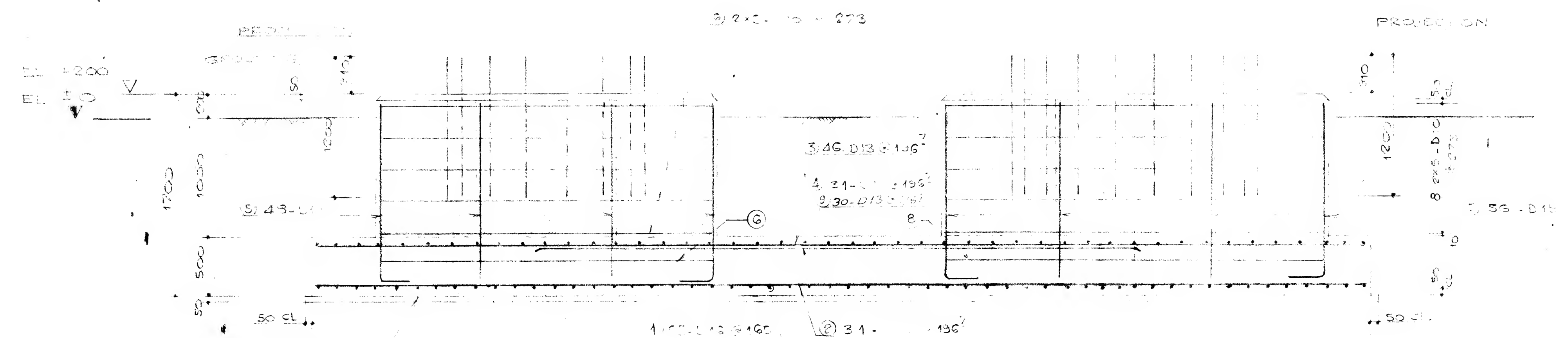
ISSUED

NAME OF DRAWINGS	SHE	MAR
FOUNDATION FOR TOWER	1	
CONCRETE JACKET	2	
ANCHOR BOLT	3	
SHIELD BOLT	4	

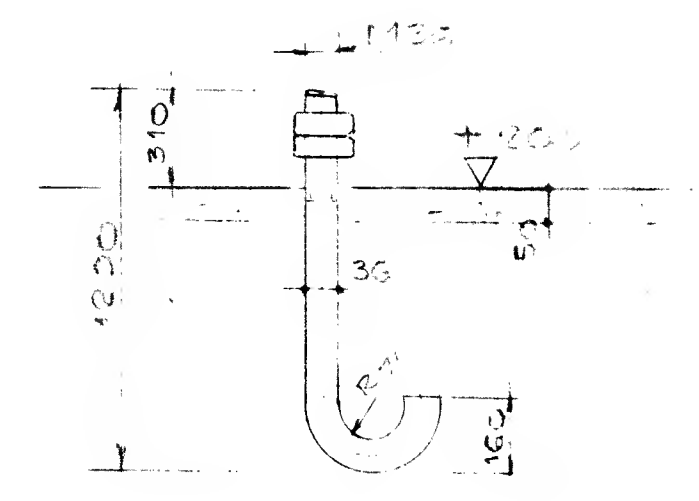
NOTES:
ALL DIMENSIONS IN mm



PLAN



SECTION A-A



DETAIL OF ANCHOR BOLT

NO.	BAR	BEARING	NO.	BAR	BEARING
1	16	180	1	16	180
2	16	180	2	16	180
3	13	130	3	13	130
4	13	130	4	13	130
5	13	130	5	13	130
6	13	130	6	13	130
7	13	130	7	13	130
8	13	130	8	13	130
9	13	130	9	13	130
10	13	130	10	13	130
11	13	130	11	13	130
12	13	130	12	13	130
13	13	130	13	13	130
14	13	130	14	13	130
15	13	130	15	13	130
16	13	130	16	13	130
17	13	130	17	13	130
18	13	130	18	13	130
19	13	130	19	13	130
20	13	130	20	13	130
21	13	130	21	13	130
22	13	130	22	13	130
23	13	130	23	13	130
24	13	130	24	13	130
25	13	130	25	13	130
26	13	130	26	13	130
27	13	130	27	13	130
28	13	130	28	13	130
29	13	130	29	13	130
30	13	130	30	13	130

Enppi
APPROVED
DATE: 10/10/14

ISSUE	DESCRIPTION	APPROVED
1	ISSUED FOR APPROVAL	

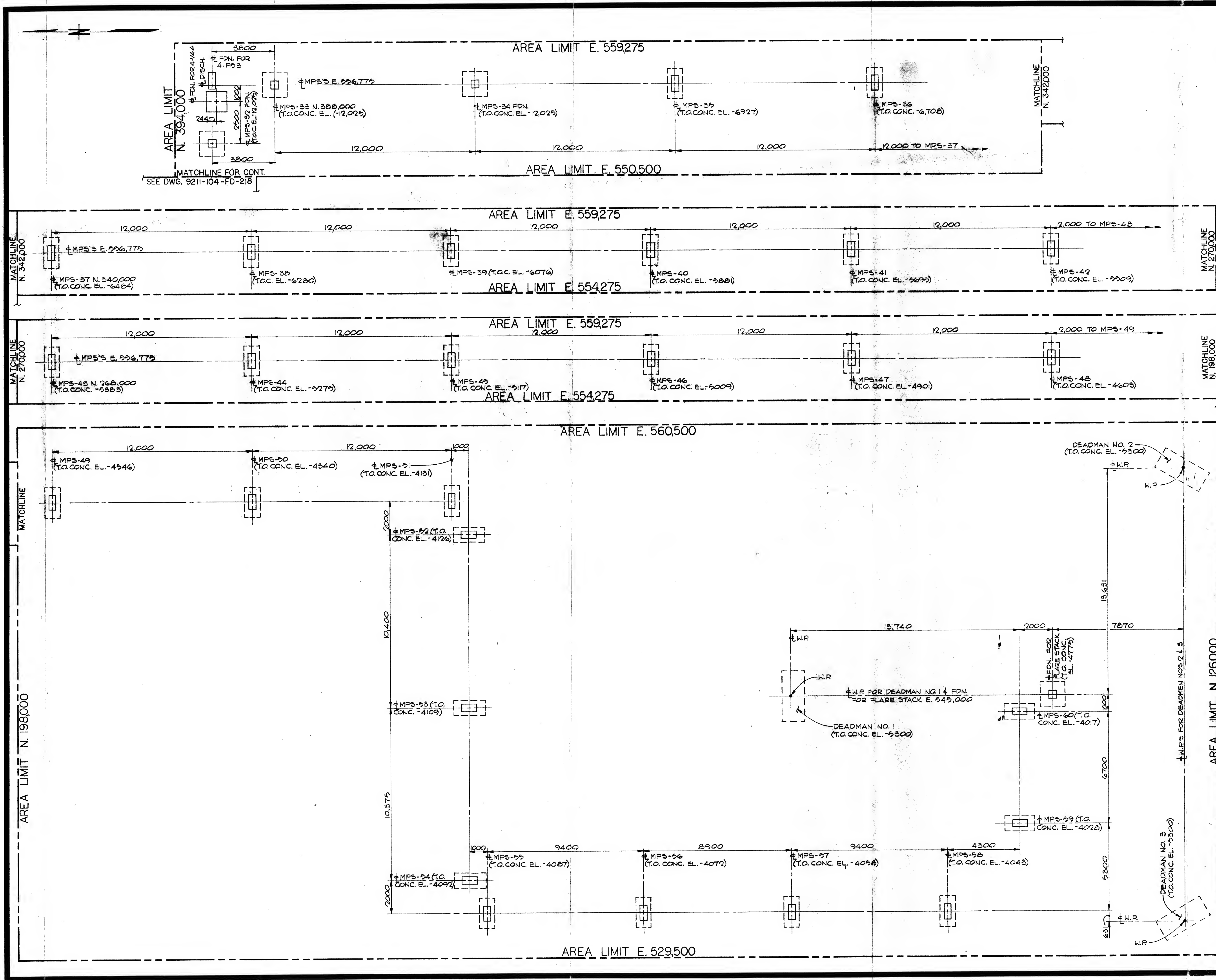
PROJ. NO. 2318.200
L. NO. 06291401
OWNER: GULF OF SUEZ GAS PLAN

FOUNDATION FOR TOWER
4.T101 & 4.T102

Hitachi Zosen
CIVIL ENGINEERING DEPARTMENT
OSAKA, JAPAN

DATE: DEC. 27, 2014
DWG. NO. 14
SHEET NO. 000-1

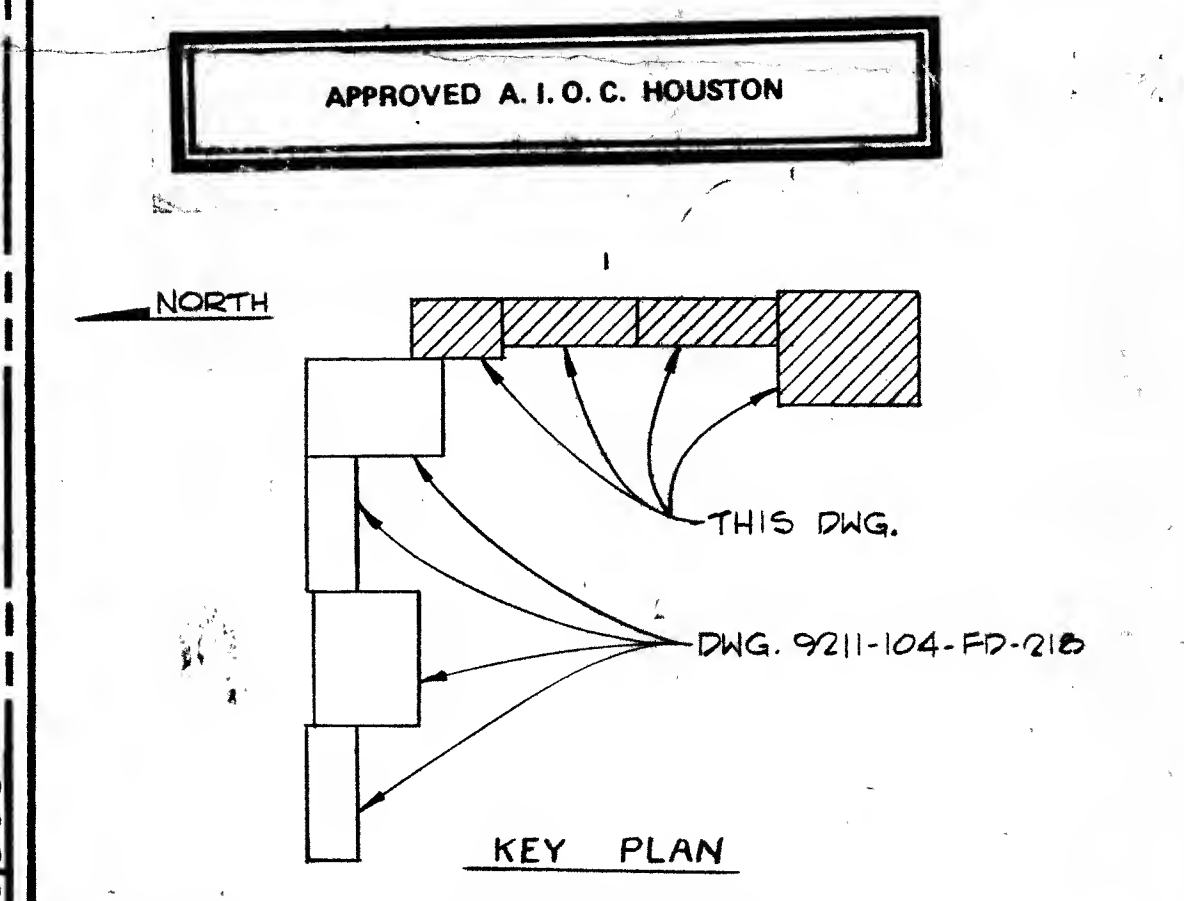
PLATE SHALL BE KEPT IN
BEFORE RESULTING
PROJECTION PLACES WITH
BAND-SMOOTH WITH
FOR LOCATION AND
LOCATION PLAN ON



GENERAL NOTES:
1. FOR GENERAL NOTES AND REFERENCE DRAWINGS SEE DRAWING 9211-104-FD-218.

FIELD VERIFY ALL COORDINATES, DIMENSIONS & ELEVATIONS

REFERENCE DRAWINGS:
9211-104-FD-218 FLARE AREA FDN. LOCATION PLAN SHT. 1 OF 2



REV	DATE	DESCRIPTION	BY	CHECKED	DESIGNED	APPROVED
1	8/4/81	ISSUED FOR CONSTRUCTION	N-H			M-S
2	8/4/81	APPROVED FROM A.I.C.C.	RNS	ALD	E.F.	8/4/81
3	8/4/81	ISSUED FOR APPROVAL	RNS	RR	E.F.	8/4/81

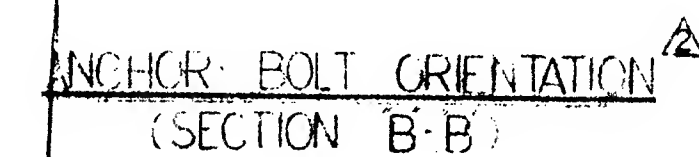
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DESIGNED	DRAWN	REVIEWED	APPROVED
MMS	R. SUTTON	RNS	8/4/81

FOR E.G.P.C.
AT RAS SHUKHEIR
GULF OF SUEZ GAS PROJECT
GAS SWEETENING UNIT
AREAS 9A & 9C
STRUCTURAL
FLARE AREA FDN. LOCATION PLAN - SHT. 2 OF 2

الشركة الهندسية للبترول والكيمياء
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	DRAWING NUMBER	REVISION
1:100	9211-104-FD-219	1



REFERENCE DRAWINGS

DESIGN DATA

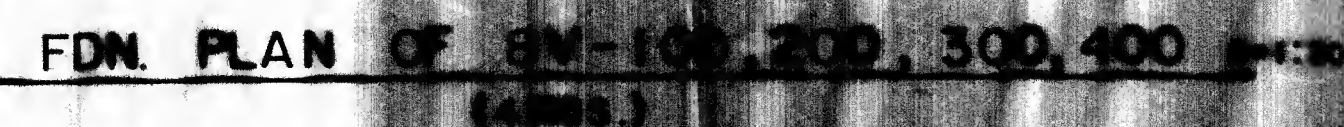
GENERAL NOTES

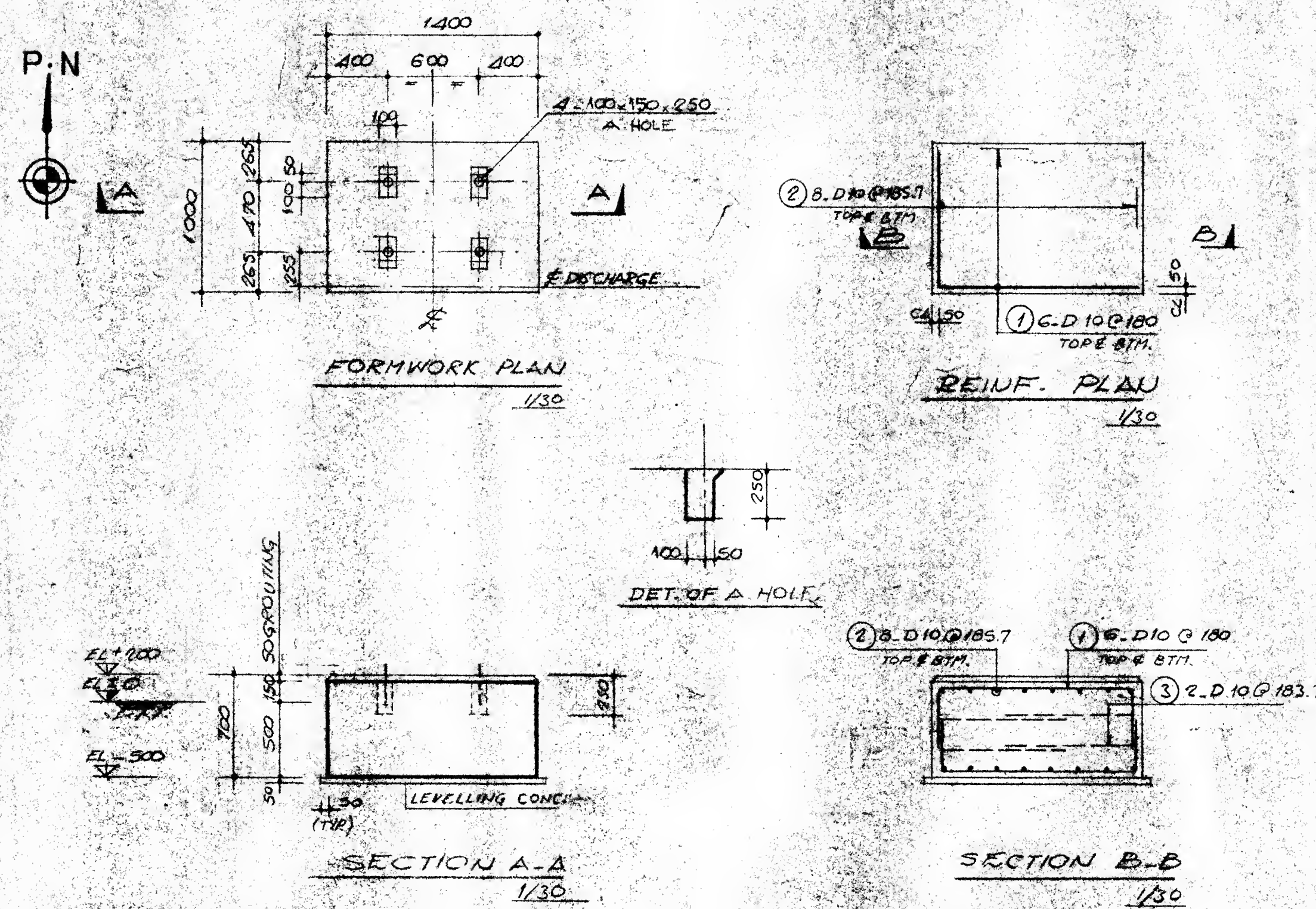
- | | | | | | | | | | | |
|------|----|------|---------|--------|---------|---------|-------|----------------|--------------|--------------------------|
| NO. | 80 | 1 | AS | ET | SEE DWG | 13 | 570 | | | |
| | 80 | 150 | V.H. KE | INLET | 112 | 13 | 570 | 163W-039-02 | | |
| MARK | U | SIZE | SCH. | RATING | TYPE | SERVICE | PROJ. | THK'S
OF IN | O.D.
P.D. | (SEE DWG NO.)
REMARKS |

MATERIAL DESCRIPTION

PART NO.	PART NAME	MATERIAL	REQ'D WEIGHT QTY Y	(KG)	USE Dwg. No. 3	REMARKS
CUSTOMER						
E. G. P. C.			4			
DWINDING WELD	SCALE	PROJECT	100 BOOSTER COMPRESSION STATION			
DES	1:20	TITLE	B7-100, 200, 300, 400			
CHK	86.6.17	COMPRESSOR	SUCTION SCRUBBER			
CHK	86.6.18	ASSEMBLY				
APP	86.6.18	REF	DWG NO.			
			HHI-163 V - 039 - 00			
			DEL 10653 - 1400 - 01-34-100-01			
			17550-SK-100 REV0			


HYUNDAI
 HEAVY INDUSTRIES CO., LTD.
 INDUSTRIAL PLANT DIVISION
 REV
M/K

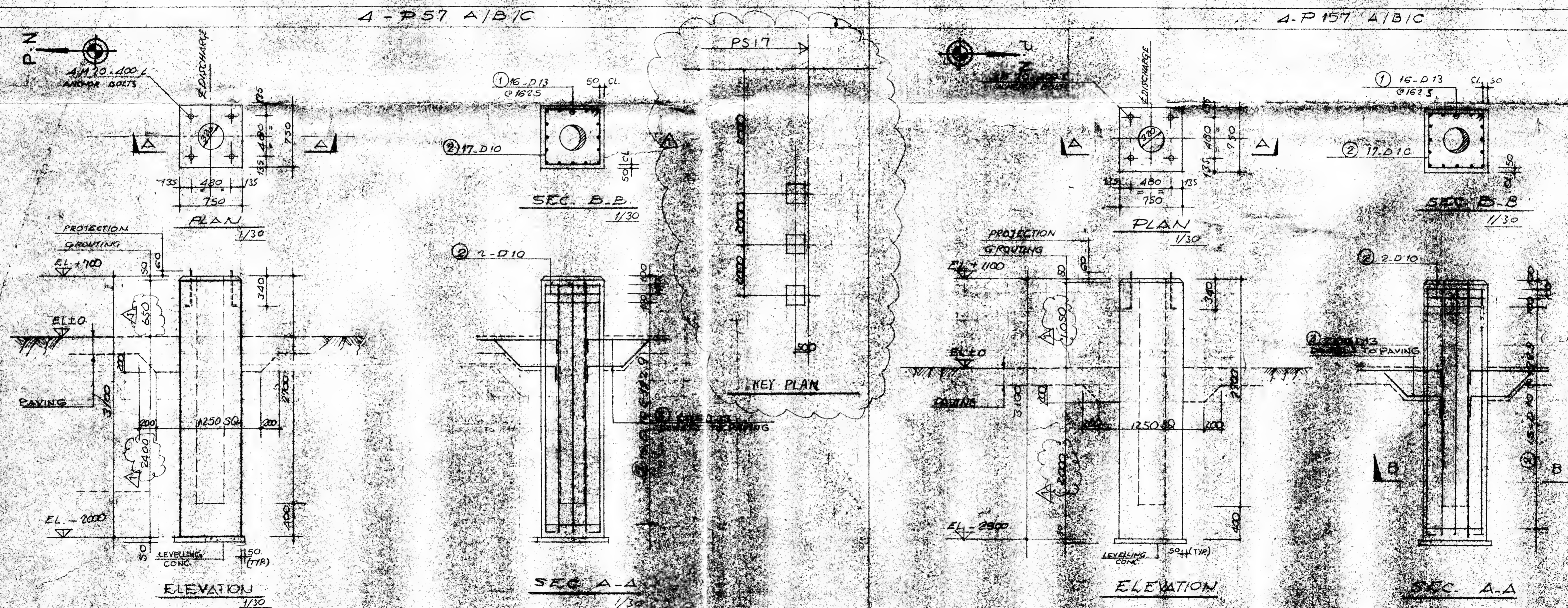
[illegible]



NOTE:
ALL DIMENSIONS ARE IN M.M

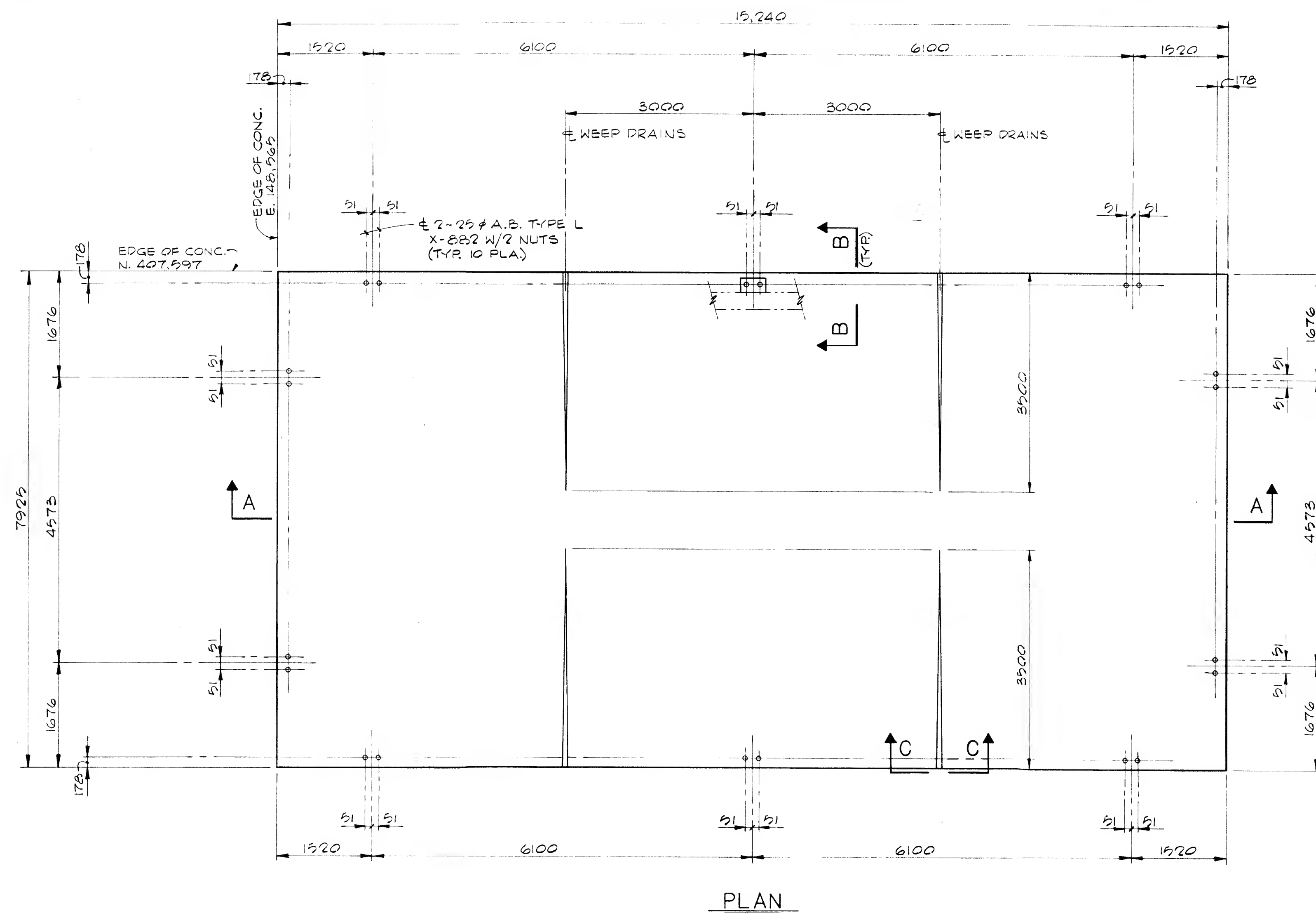
Enppi
APPROVED
DATE May 12 86

LIST OF MATERIALS			
DESCRIPTION	UNITS	QUANTITY	REM
REINFORCED CONC.	M ³	15.64	
LEVELLING CONC.	M ²	12.75	
FORMWORK	M ²	67.64	
EXCAVATION	M ³	17.43	
BACK FILLING	M ³	2.86	
BAR - D10	KG	215.72	
BAR - D13	KG	318.40	

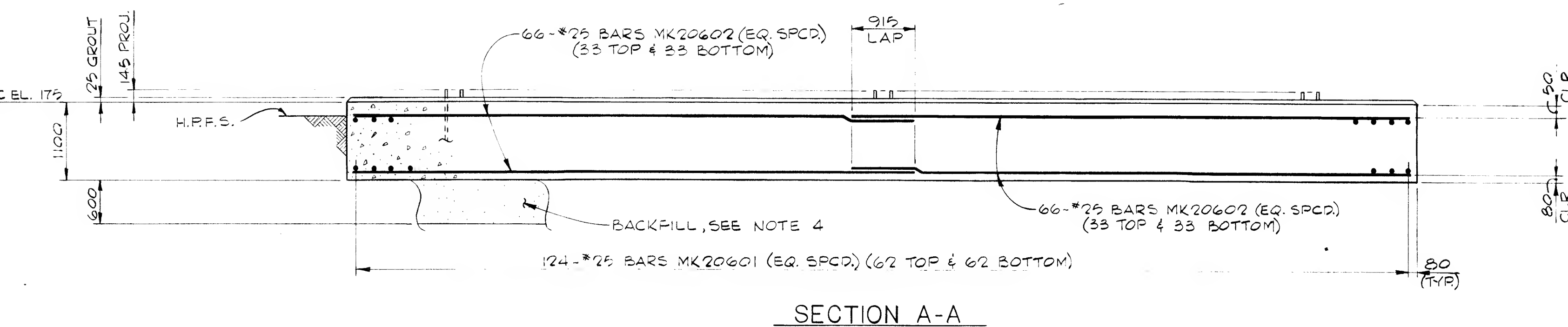


BAR BENDING SCHEDULE																										
ITEM	A	B	C	D	E	F	G	H	ITEM	A	B	C	D	E	F	G	H	ITEM	A	B	C	D	E	F	G	H
①	13	-	3480	477	2	22		540	①	13	180	12						①	13	1825	3175	18	3	48		
②	13	-	2180	1645	4			540	②	13	185.7	16						②	13	-	2800	17	3	51		
③	10	183.3	3900	4				400	③	13	182.3	4						③	13	-	850	2116	3	96		
④	13	-	1580	12		2H		500																		

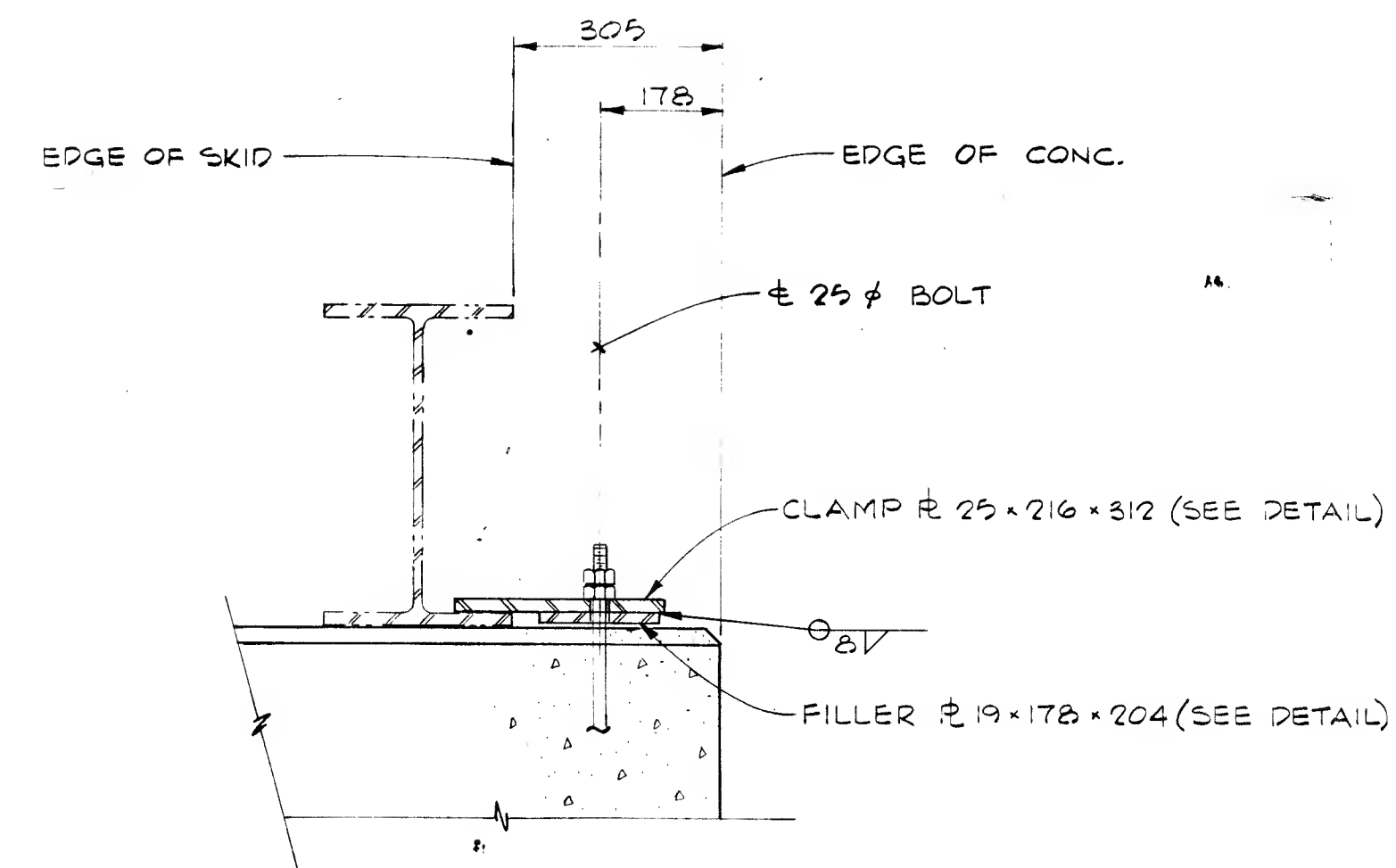
06291401		EGPC	
GULF OF SUEZ GAS PLANT PHASE I FOUNDATION DETAILS FOR 4-P 103 A/B , 4-P 104 4-P 57 A/B/C & 4-P 157 A			
		(SCALE) 1/30	
Hitachi Zosen		DRAWN BY: JK	
CIVIL ENGINEERING DEPARTMENT OSAKA, JAPAN		CHECKED BY: Osami	
DATE: MARCH 29 / 1985		RELATED SECTION	
DWG NO. 2485375	SHEET NO. COS-ACC-534-102		



PLAN

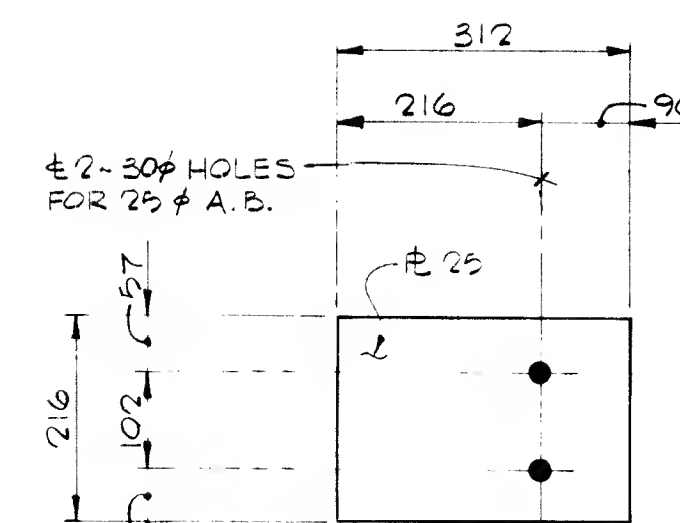


SECTION A-A

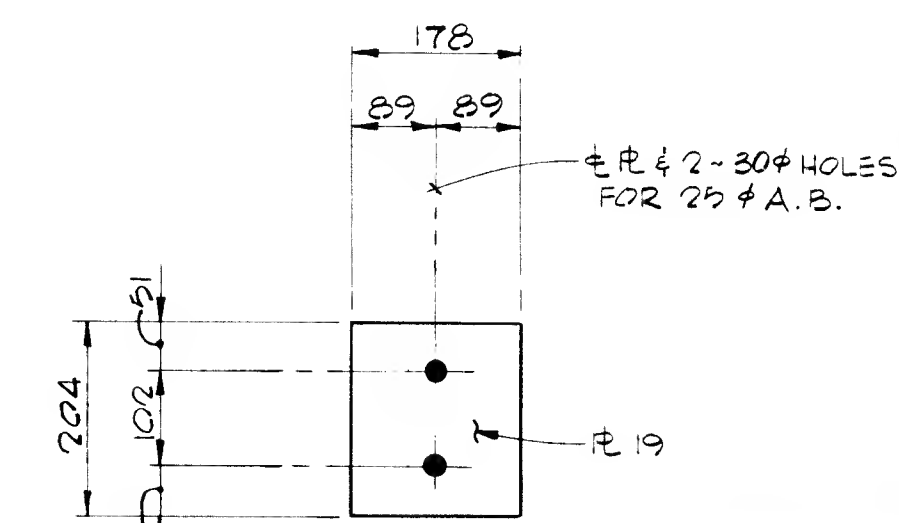


SECTION B-B

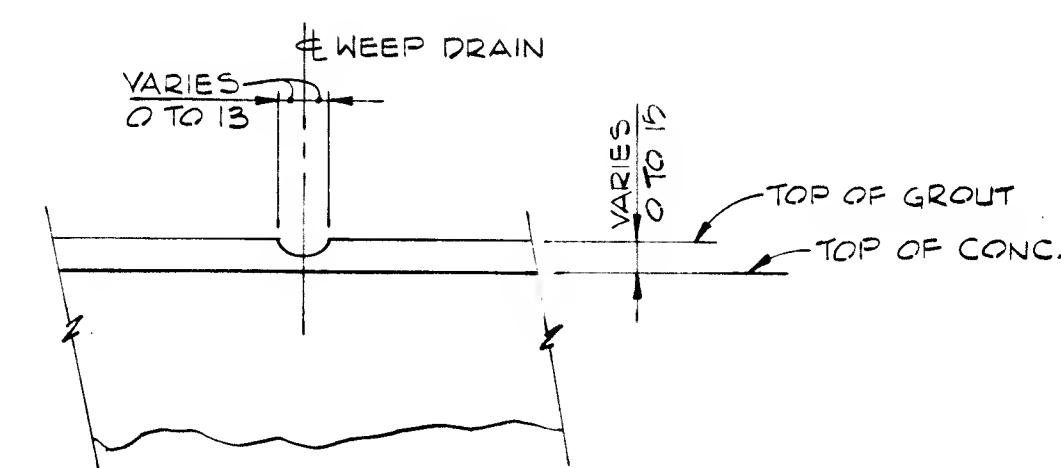
(TYP. 10 PLACES)
SCALE: 1:10



CLAMP PLATE DETAIL
NTS



FILLER PLATE DETAIL
NTS



VIEW C-C
NTS

GENERAL NOTES:

1. FOR CONCRETE GENERAL NOTES 9211-104-FD-200.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. HIGH POINT FINISHED SURFACE (H.ELEV. 0.00 METERS. H.R.F.S. IS 1/2 MEAN SEA LEVEL.
4. FILL BELOW FOUNDATION TO BE GRAVEL, COARSE SAND OR OTHER.
5. CONCRETE FOR FOUNDATION TO BE MEASURED.
6. GROUT QUANTITY TO BE MEASURED.
7. ALL WELD SIZES ARE IN MILLIMETERS.

ESTIMATED MATERIAL

CONCRETE	(M ³)
BACKFILL	(M ³)
25 # ANCHOR BOLTS	(EA.)
REBAR	(METRIC TON)
19 # 25 x 216 x 312	(EA.)
19 # 178 x 204	(EA.)

* TOTAL 25 THK. 19 # 673920 (MM³)
** TOTAL 19 THK. 19 # 363120 (MM³)

REFERENCE DRAWINGS

9211-104-FD-200	CONCRETE GEN.	ES
9211-104-FD-201	FOUNDATION LOC.	AN
B-9211-104-FD-224	REBAR SCHED. F.	I F
9211-104-SD-207	ANCHOR BOLT	

APPROVED A. I. O. C. HOUSTO

1 624	ISSUED FOR CONSTRUCTION	
11 1/11	APPROVED FROM A.I.O.C.	R
40 6/21	ISSUED FOR APPROVAL	R
REV	DATE	DESCRIPTION

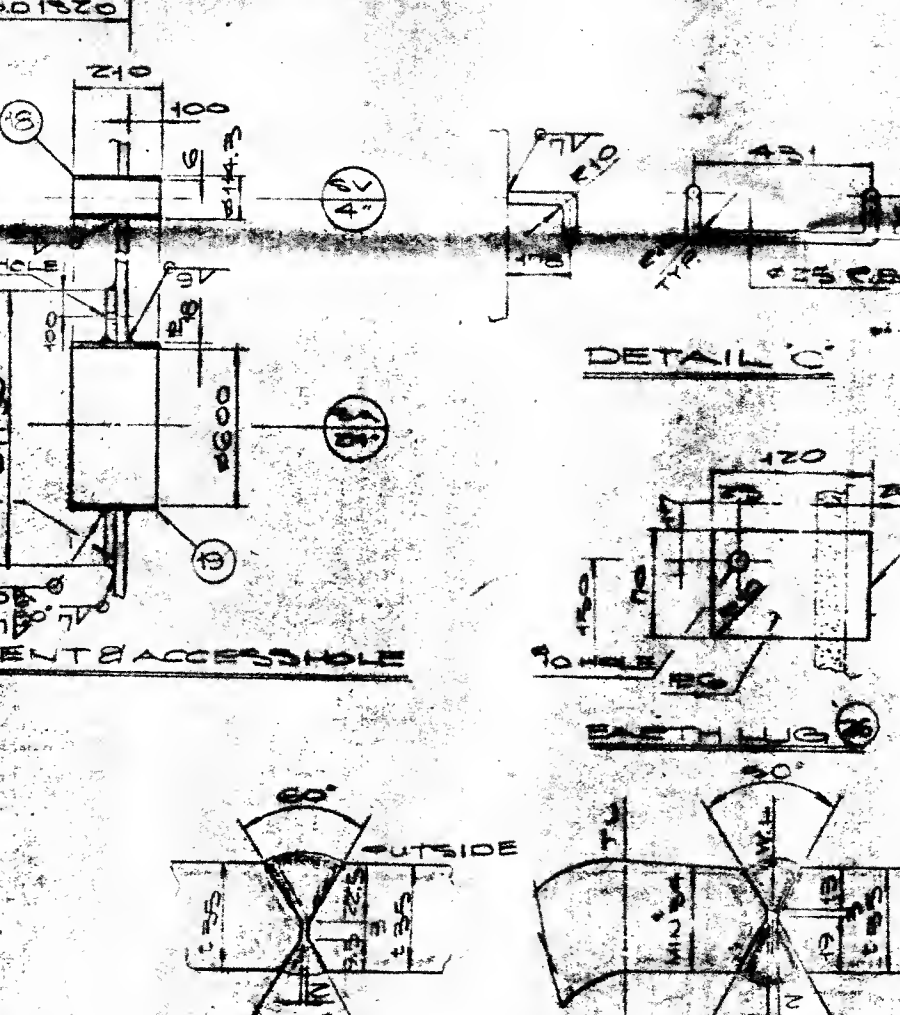
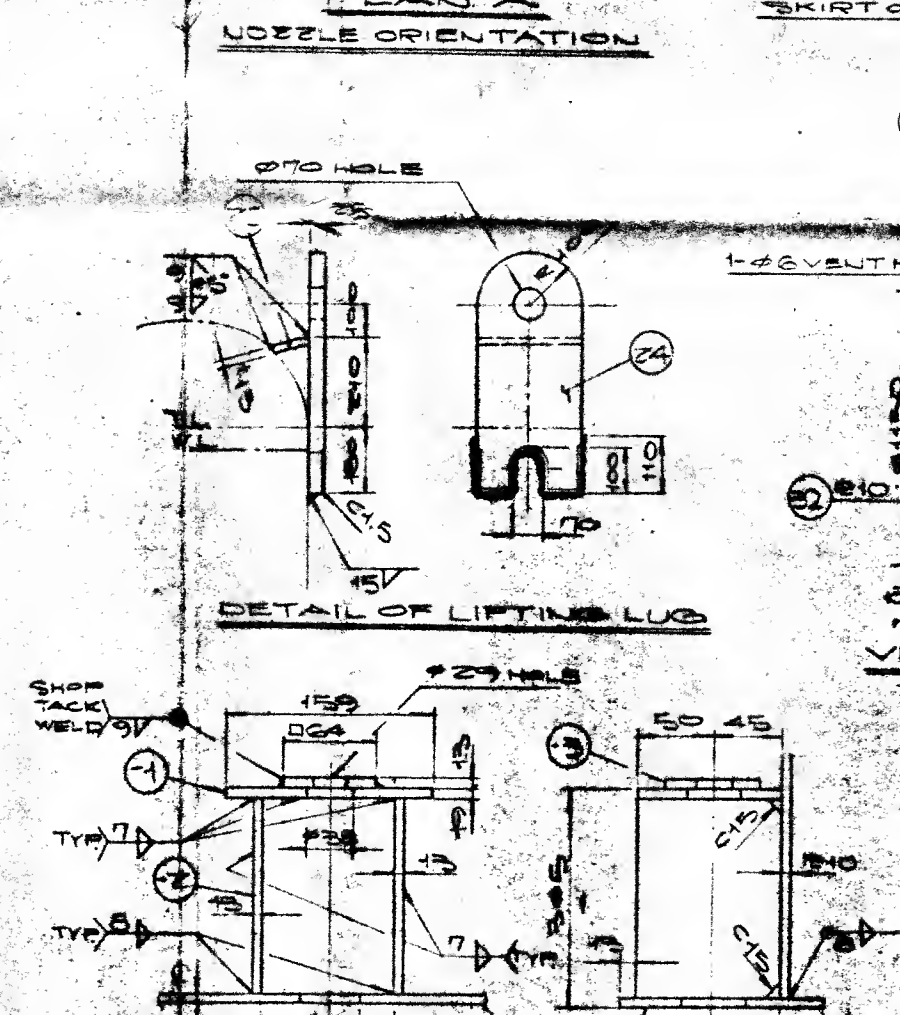
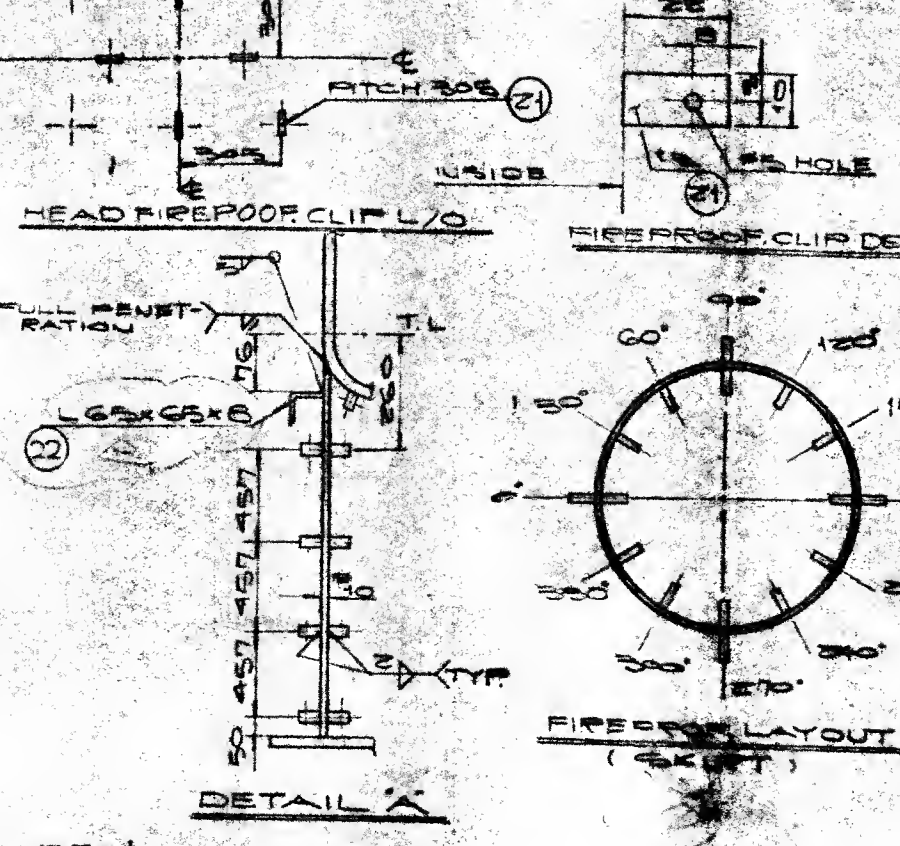
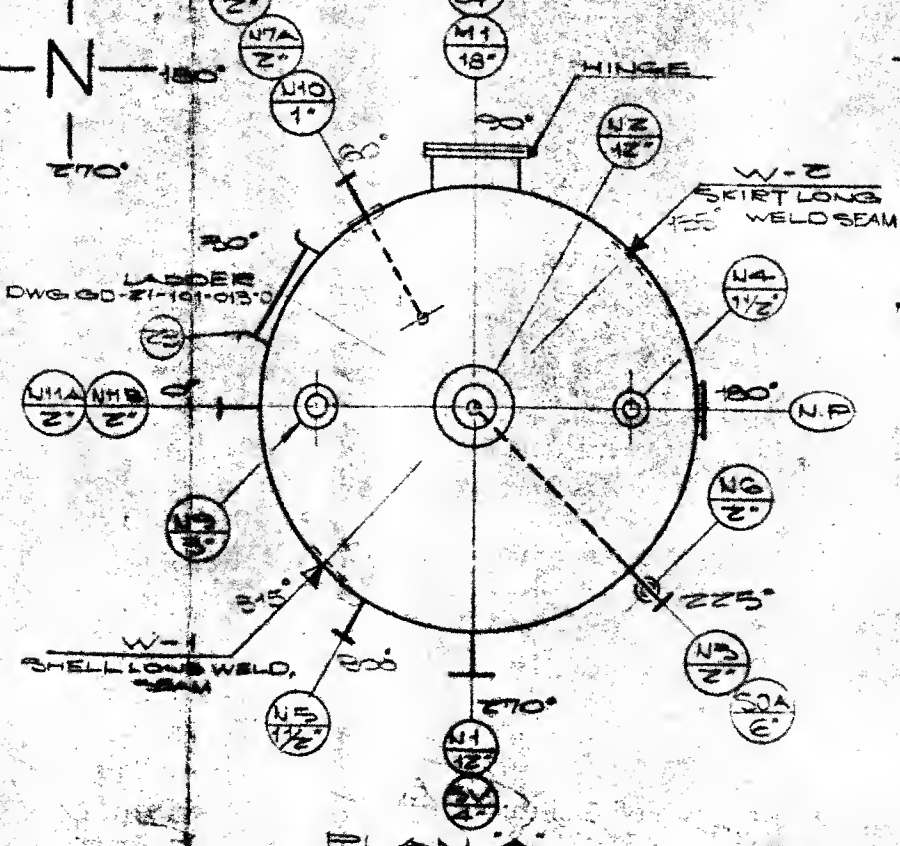
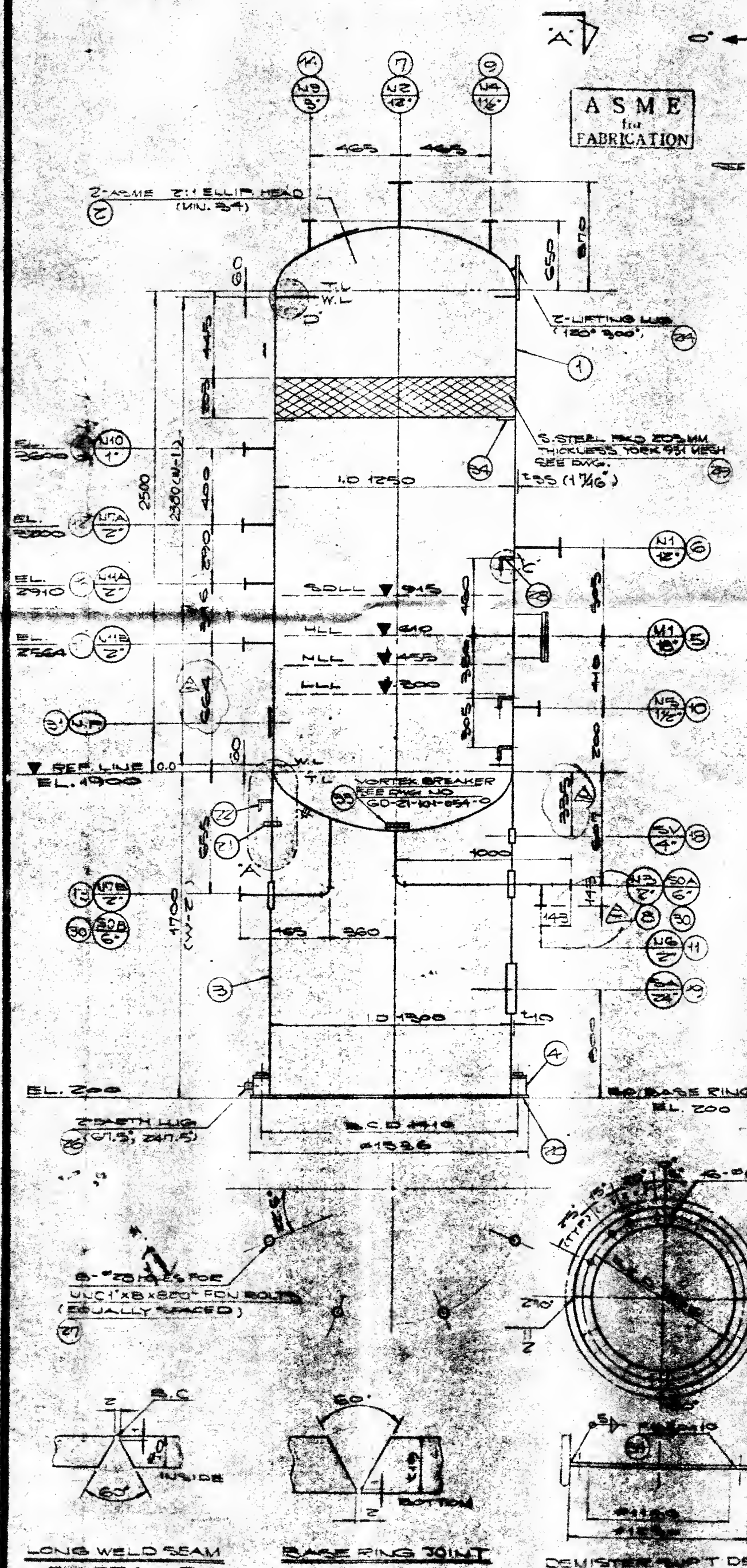
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ISSUED FOR CONSTRUCTION	CUSTOMER AT
BY: [Signature]	DATE: [Date]
DESIGNED: [Signature]	DRAWN: [Signature]
FOR E.G.O.C.	REVIEWED: [Signature]
AT RAS SHUK-ER	

GULF OF SUEZ GAS P
GAS SWEETENING
AREAS 3F & 3H
FOUNDATION FOR SKI

Enppi

ENGINEERING FOR THE PETROLEUM AND P

SCALE	DRAWING NUMBER
1:50	9211-104-FD-
DATE	
6-3-81	



DESIGN DATA	
CODE: ASME SEC VIII DIV 1	
CAPACITY: 3.5	TYPE: SKIRT
NO. OF REQ'D: 2 (TWO)	
OPERATING TEMPERATURE	45 °C
OPERATING PRESSURE	4.27 kg/cm ²
DESIGN TEMPERATURE	5 °C
DESIGN PRESSURE	5.5 kg/cm ²
HYDRO. TEST PRESSURE (SHOP)	99.94 kg/cm ²
HYDRO. TEST PRESSURE (FIELD)	90.24 kg/cm ²
WELD PRESSURE	105 kg/cm ²
SPECIFIC GRAVITY	0.61
CORROSION ALLOWANCE	2 mm
POST WELD HEAT TREATMENT	YES
JOINT EFFICIENCY	100 %
RADIOGRAPHIC	FULL
EARTHQUAKE FACTOR	-
INSULATION	NO
PAINTING	SEE NOTE 1, 2
PAINT: NEW - GOLF	26.25 kg/m ²
PAINT: (GOLF)	50.45 kg/m ²
WEIGHT	
EMPTY	6674
OPERATING	1786
FILL OF WATER	10543

NOZZLE AND CONNECTIONS	
NO.	DESCRIPTION
1	SKIRT
2	HEAD
3	WASHER
4	BRACKET
5	UPPER RING
6	VAR. INLET
7	VAR. OUTLET
8	VAR. OUTLET
9	VAR. OUTLET
10	UT - TV
11	BRIDLE
12	BRIDLE
13	SAFETY VALVE
14	PRESS. INDIC.
15	LEVEL SWITCH
16	LEVEL SWITCH
17	SKIRT VENT
18	ACCESS HOLE
19	BASE PLATE
20	BASE PLATE
21	SKIRT OPENING
22	DEMISTER
23	LADDER RUNG
24	FOUNDATION BOLT
25	EARTH LUG
26	BRACKET
27	UPPER RING
28	ALUMINUM SHAPE
29	SKIRT
30	HEAD
31	SHELL

NOTES

- SURFACE PREPARATION: COMMERCIAL BLAST NEAR WHITE.
- PAINTING:
 - PRIME - SELF CURING ETHYL SILICATE INORGANIC ZINC 1 COAT 2 1/2 MILS.
 - FINISH - POLYAMID EPOXY HIGH BUILD ENAMEL 1 COAT 5 MILS. (BY OTHERS)
- FIELD HYDRO TEST DENOTES FUTURE CORRODED CONDITION.

MATERIAL LIST

NO.	DESCRIPTION	MAT'L	QTY	SIZE	REMARKS
1	SKIRT	ASME	1	1250	
2	HEAD	ASME	1	1250	
3	WASHER	ASME	1	1250	
4	BRACKET	ASME	1	1250	
5	UPPER RING	ASME	1	1250	
6	VAR. INLET	ASME	1	1250	
7	VAR. OUTLET	ASME	1	1250	
8	VAR. OUTLET	ASME	1	1250	
9	VAR. OUTLET	ASME	1	1250	
10	UT - TV	ASME	1	1250	
11	BRIDLE	ASME	1	1250	
12	BRIDLE	ASME	1	1250	
13	SAFETY VALVE	ASME	1	1250	
14	PRESS. INDIC.	ASME	1	1250	
15	LEVEL SWITCH	ASME	1	1250	
16	LEVEL SWITCH	ASME	1	1250	
17	SKIRT VENT	ASME	1	1250	
18	ACCESS HOLE	ASME	1	1250	
19	BASE PLATE	ASME	1	1250	
20	BASE PLATE	ASME	1	1250	
21	SKIRT OPENING	ASME	1	1250	
22	DEMISTER	ASME	1	1250	
23	LADDER RUNG	ASME	1	1250	
24	FOUNDATION BOLT	ASME	1	1250	
25	EARTH LUG	ASME	1	1250	
26	BRACKET	ASME	1	1250	
27	UPPER RING	ASME	1	1250	
28	ALUMINUM SHAPE	ASME	1	1250	
29	SKIRT	ASME	1	1250	
30	HEAD	ASME	1	1250	
31	SHELL	ASME	1	1250	

REVISIONS

NO.	DESCRIPTION	DATE	PRD	CHK'D	APP'D
1	REVISED BY AIOC COMMENTS P81.8, 20.000	8.1.15			
2	REVISED BY AIOC COMMENT P81.7.23	8.1.15			
3	REVISED FOR APPROVAL P81.7.4	8.1.15			

CUSTOMER

DAEJUNG ENGINE CO., LTD.

PROJECT

GULF OF SUBZ GAS PROTECT

ITEM NO.

4-V4 A.E

APPROVED

D.K. Lee 8.1.15

CHECKED

Y. K. SHIN 8.1.15

DESIGNED

8.1.15

DRAWN

8.1.15

BY

8.1.15

DATE

8.1.15

SCALE

1/5

DWG. NO.

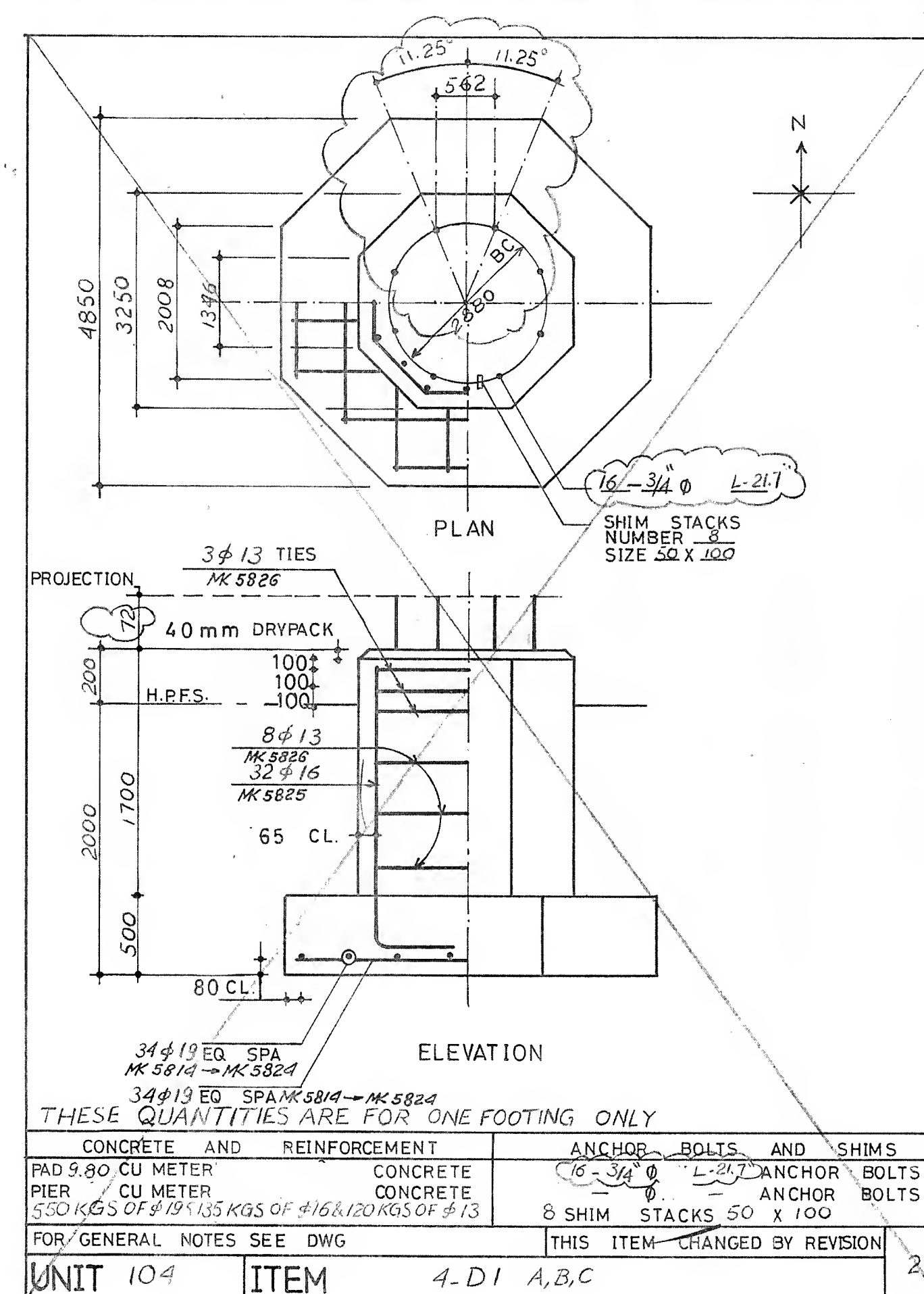
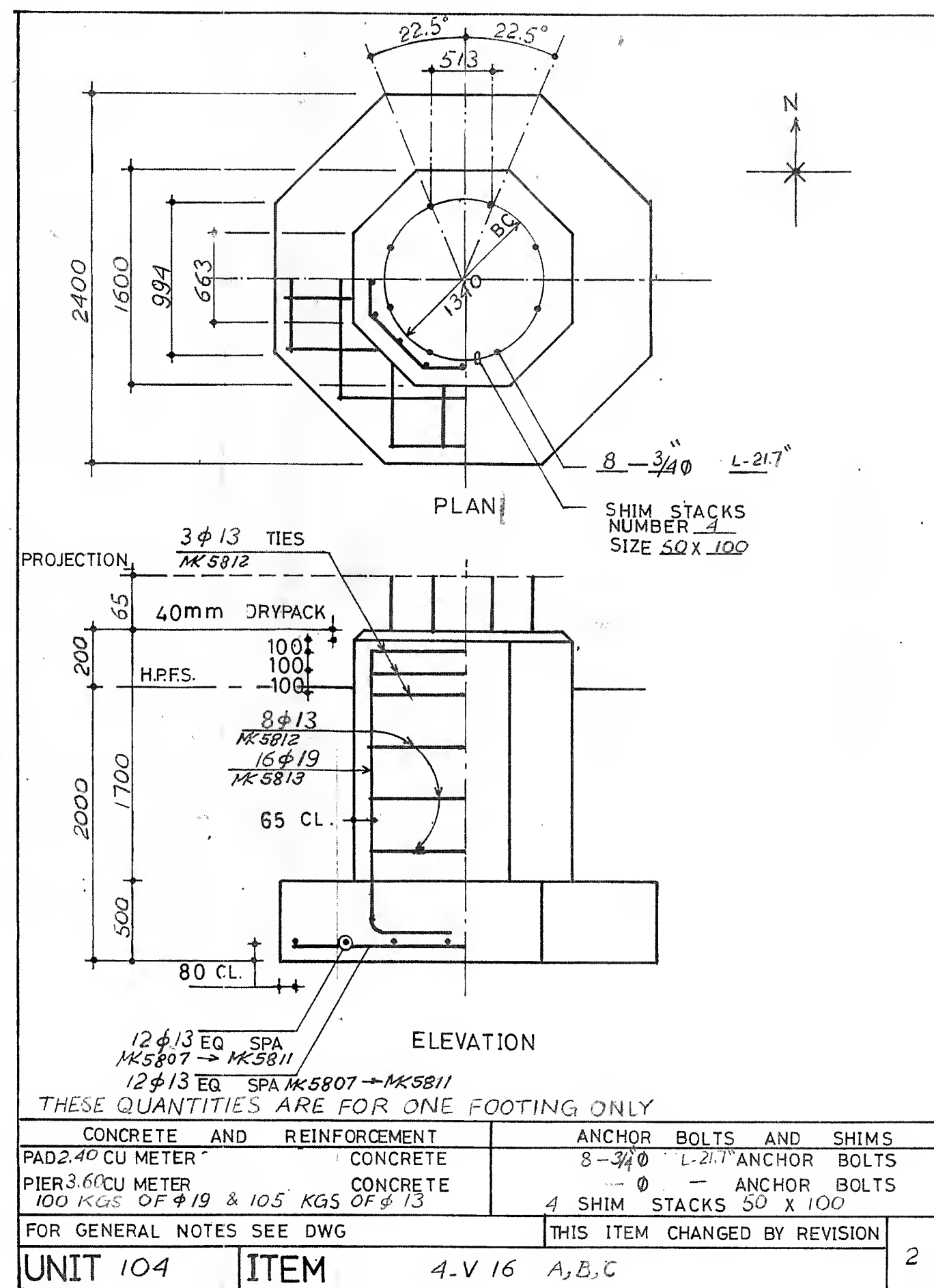
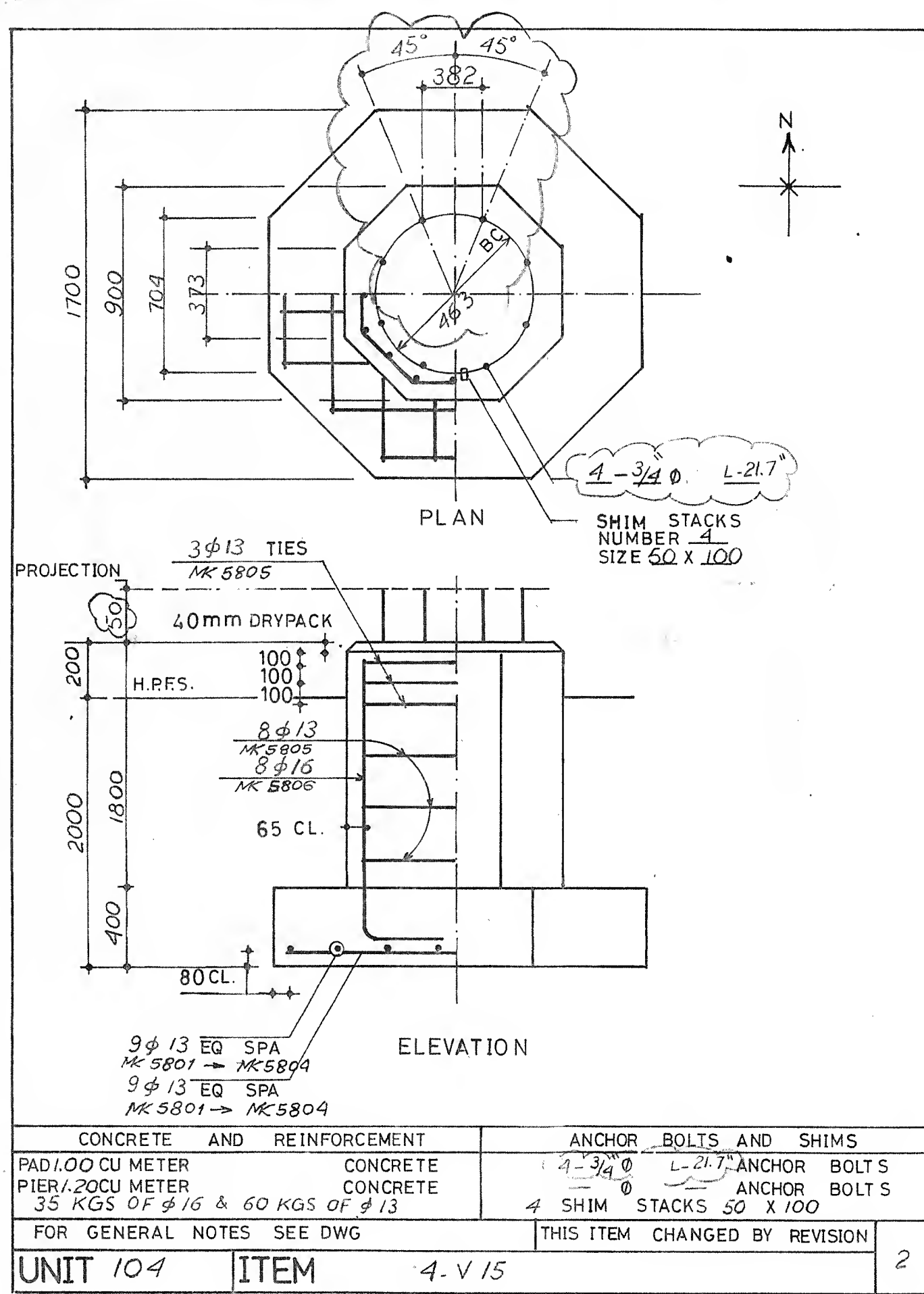
GD-21-101-051-2

SHEET NO.

1/5

REV

1/5

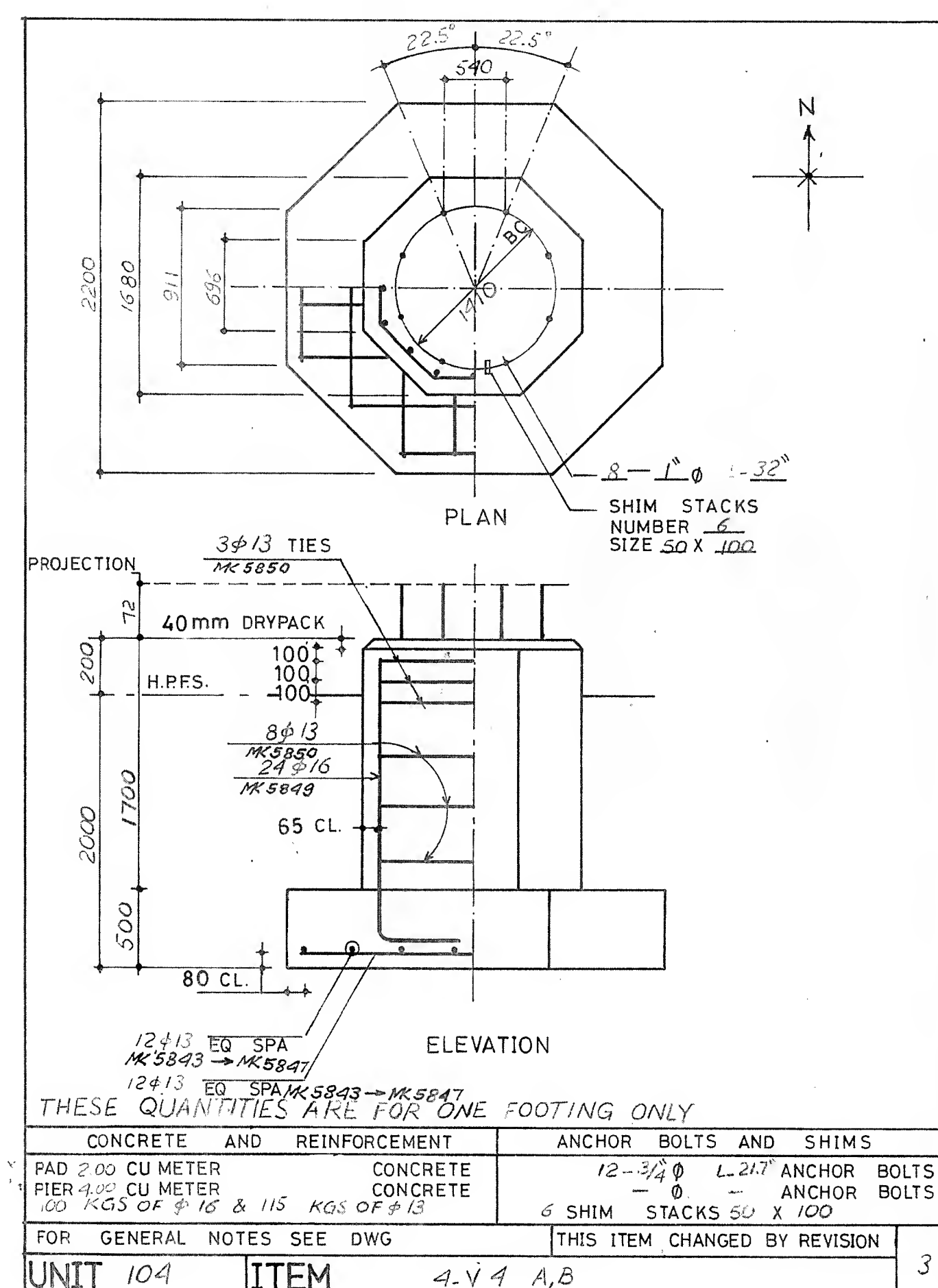
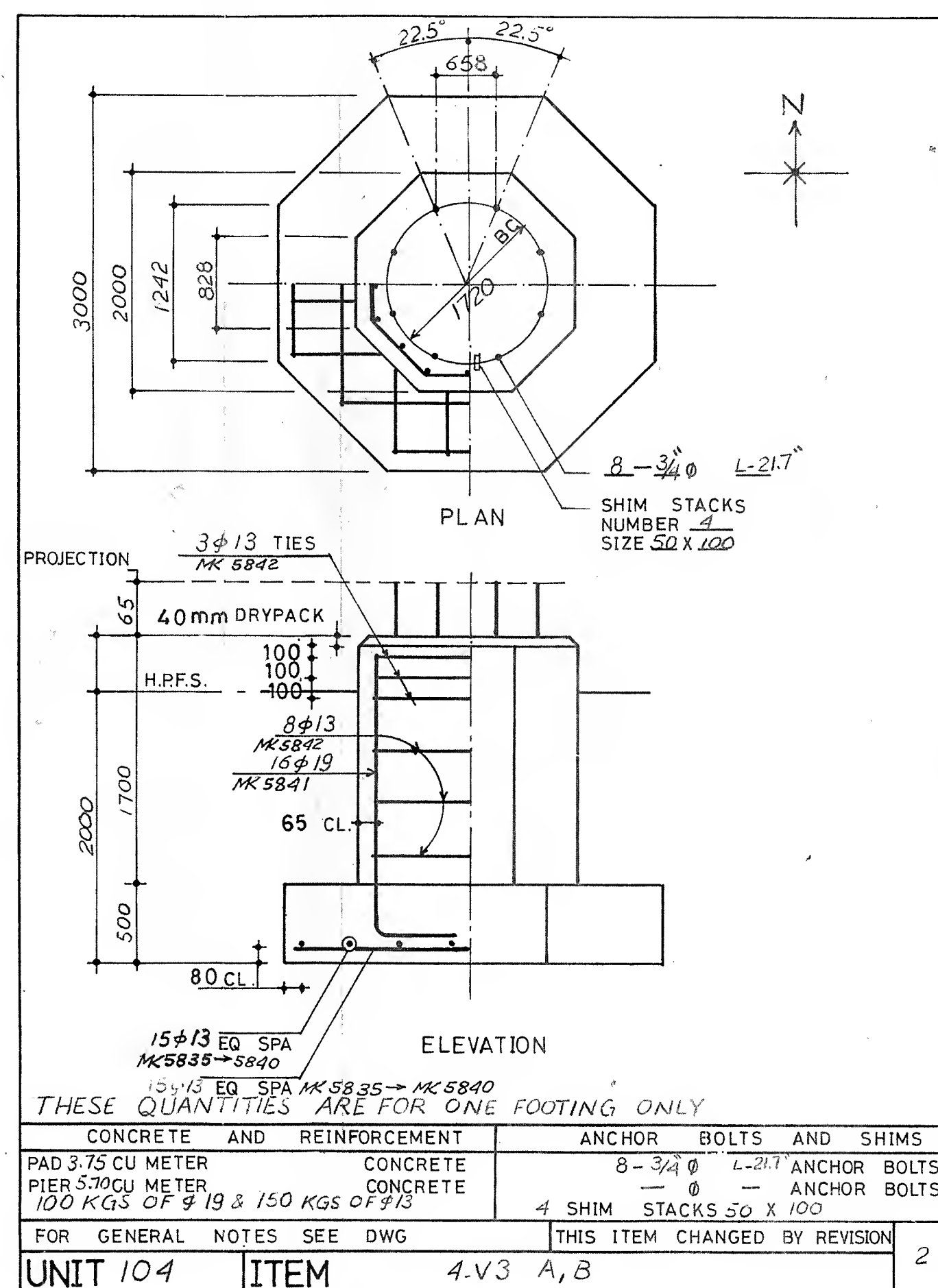
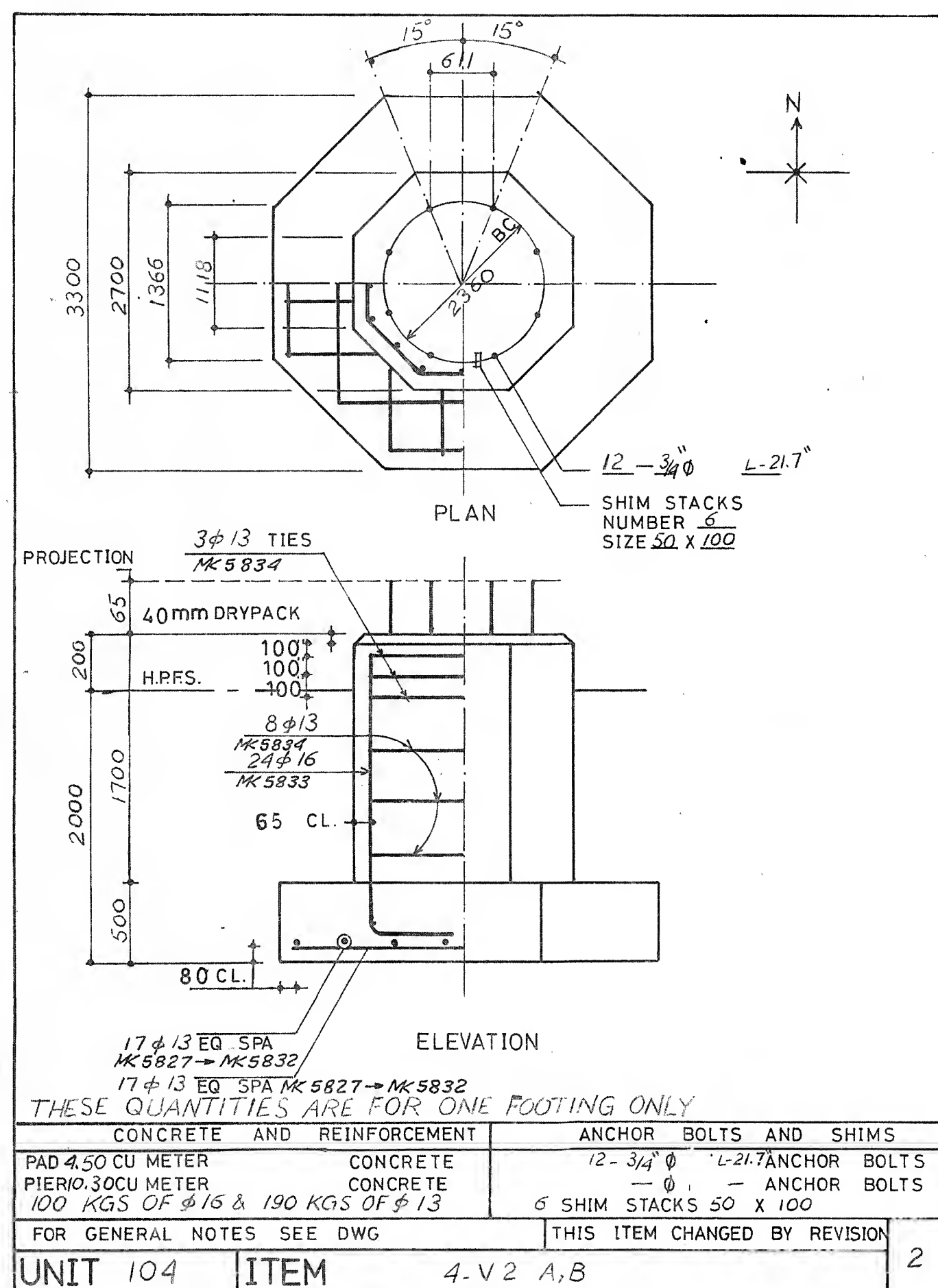


NUMBER	REFERENCE
9211-100-300-2	CONCRETE
9211-100-300-6	CONCRETE ACCESSORI
9211-100-300-7	SHIM AND GROUTING
9211-104-KE-401	PLOT PLAN
	SOIL REPORT
9211-B-104-FD-58	BAR LIST SHEET 1 & 2

- GENERAL NOTES
1. HIGH POINT FINISHED SURFACE (H.P.F.S.) = EL
 2. FOR LOCATION OF FOUNDATIONS SEE DRAWING
 3. EACH ITEM FOUNDATION IS ORIENTED BY INDIV
 4. FOR DETAILS OF ANCHOR BOLTS SEE S
 5. SOIL REPORT SHOULD BE STRICTLY FOLLO
 6. CONCRETE FOOTINGS ARE CLASS 'A' CON
 7. CONCRET FOOTINGS TO BE UNDERLAYE

HOLD VENDOR DRAWING IS NOT SUBM

ESTIMATED MATERIAL	
R.C (M ³)	155 +9
REINFORCING BARS (TON)	12 +0.2
3/4\" L-21.7\" ANCH. BOLTS	88 +52
1\" L-21.7\" ANCH. BOLTS	40 +40
50X100 MM SHIM STACKS	66 +6
1\" L-32\" ANCH. BOLTS	0



No 4-V
B-104-58

3	8/12	- 4-D1 A,B,C WAS CANCELLED	N/M	A	M.
2	3/5	- 4-V4 A,B WAS CHANGED	N/M	I	M.
1	12/20	REVISED AS SHOWN	N/M	I	M.
0	2/28	ISSUED FOR CONSTRUCTION	N/M	A	M.
0	2/28	ISSUED FOR APPROVAL	N/M	A	M.

NOTICE
THIS DRAWING HAS NOT BEEN PUBLISHED. IT IS THE SOLE PROPERTY OF BRAD
IT IS LENT TO THE RECIPIENT FOR HIS CONFIDENTIAL USE ONLY, AND IN
AGREEMENTS FOLLOWING. IN CONSIDERATION OF THE LOAN OF THIS DRAW
INGS AND AGREES TO RETURN IT UPON REQUEST, AND THAT IT SHALL NOT
BE LENT, OR OTHERWISE DISPOSED OF, DIRECTLY OR INDIRECTLY, WITHOUT
CONSENT, NOR BE USED IN ANY WAY DETRIMENTAL TO THE INTERESTS OF BR.

ISSUED FOR CONSTRUCTION	CUSTOMER APPROVAL
BY M.S. DATE 12-22-80	
DESIGNED M. HAZEM	DRAWN N. HAZEM
FOR E.G.R.C	REVIEWED M.K.
AT RAS SHUKHEIR	

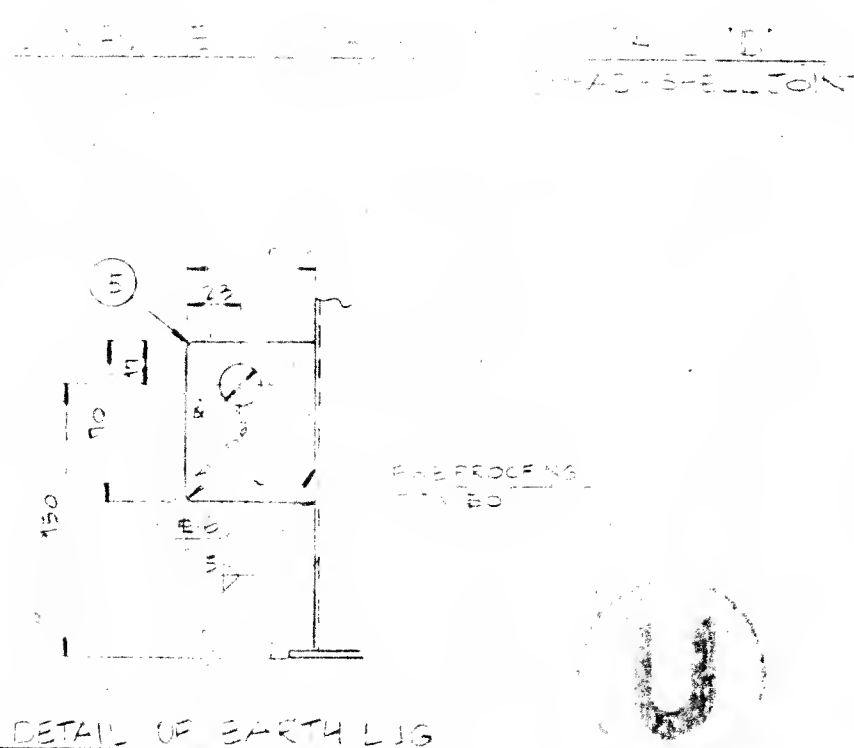
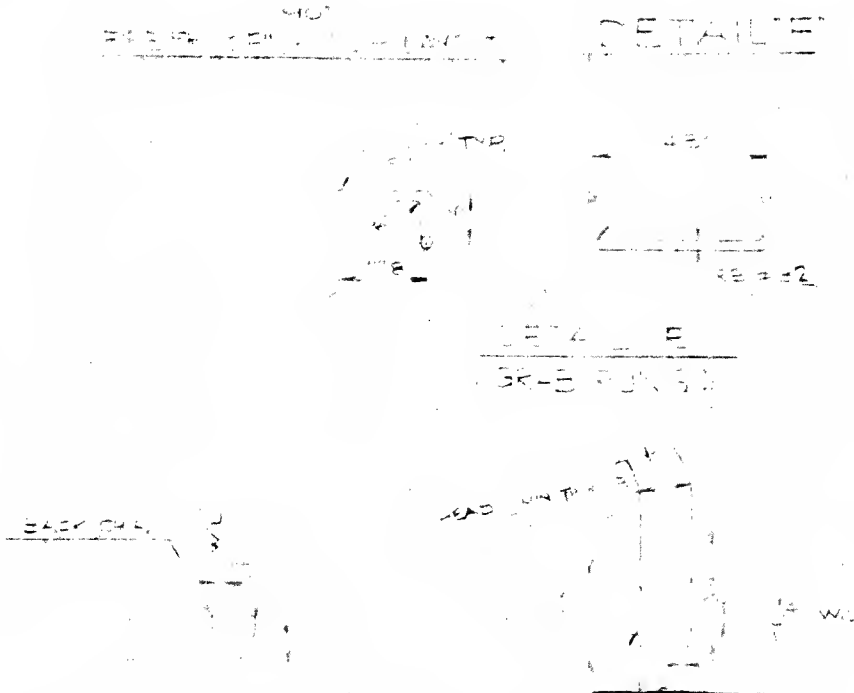
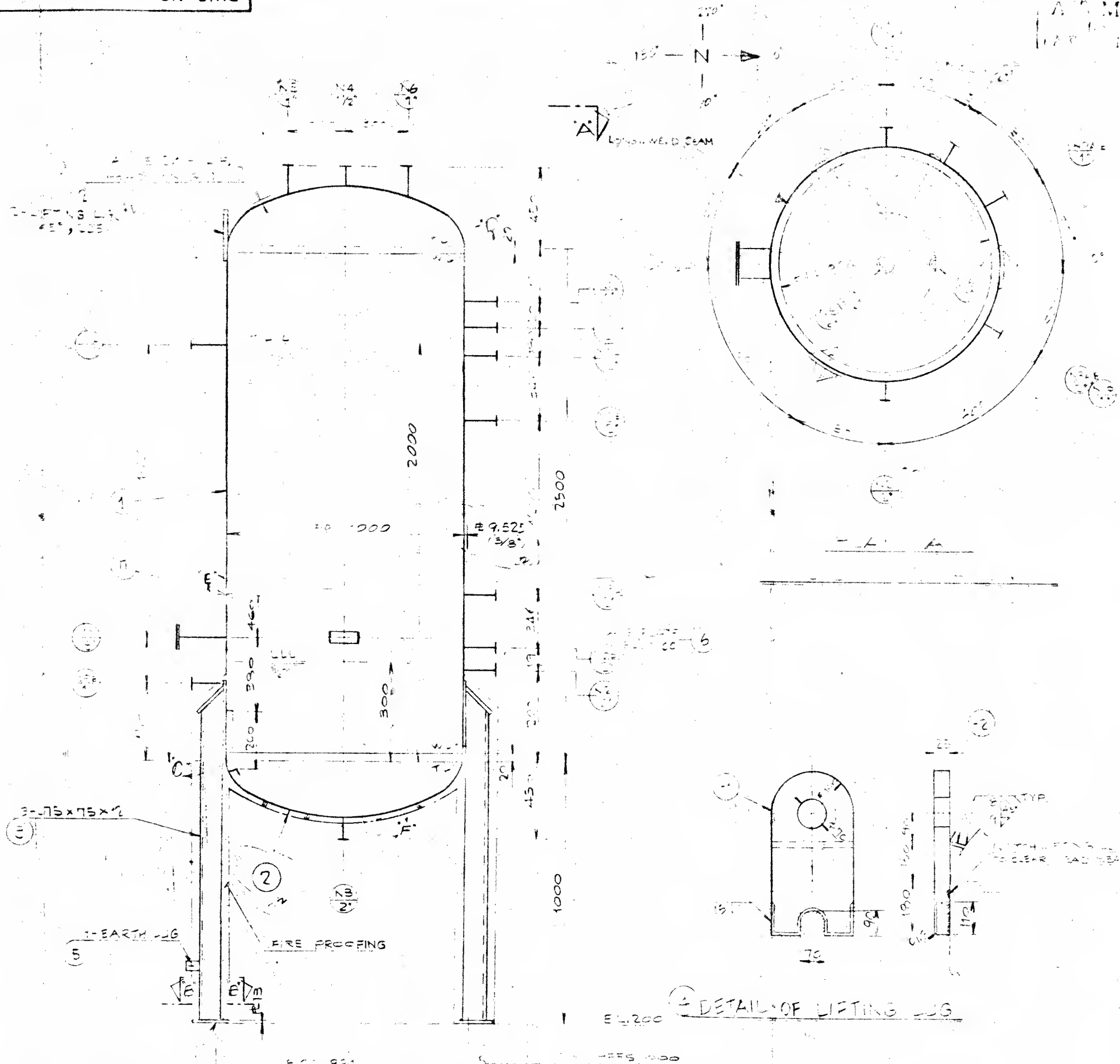
GULF OF SUEZ GAS PRO
MAIN PROCESSING PLAN
VERTICAL VESSEL FOUNDA
4-V3, 4-V4, 4-V15, 4-V16
لهند سيق للصناعات البترولية والكيمياوية

Enppi	
ENGINEERING FOR THE PETROLEUM AND PROCESS	
SCALE NONE	DRAWING NUMBER 9211-104-FD-58
DATE 9-28-80	

DWG. NO.

1. A. M. F.

40115

[illegible][illegible]

NO.	DESCRIPTION	MAKE	SIZE	QTY
MATERIAL LIST				

2	REVISED BY ADOC	11 AUG 1960		
1	REVISED BY ADOC COMMENT	11 AUG 1960		
2	REVISED FOR APPROVAL	11 AUG 1960		
NO.	DESCRIPTION	DATE	BY	APP.
REVISIONS				
1	REVISIONS			
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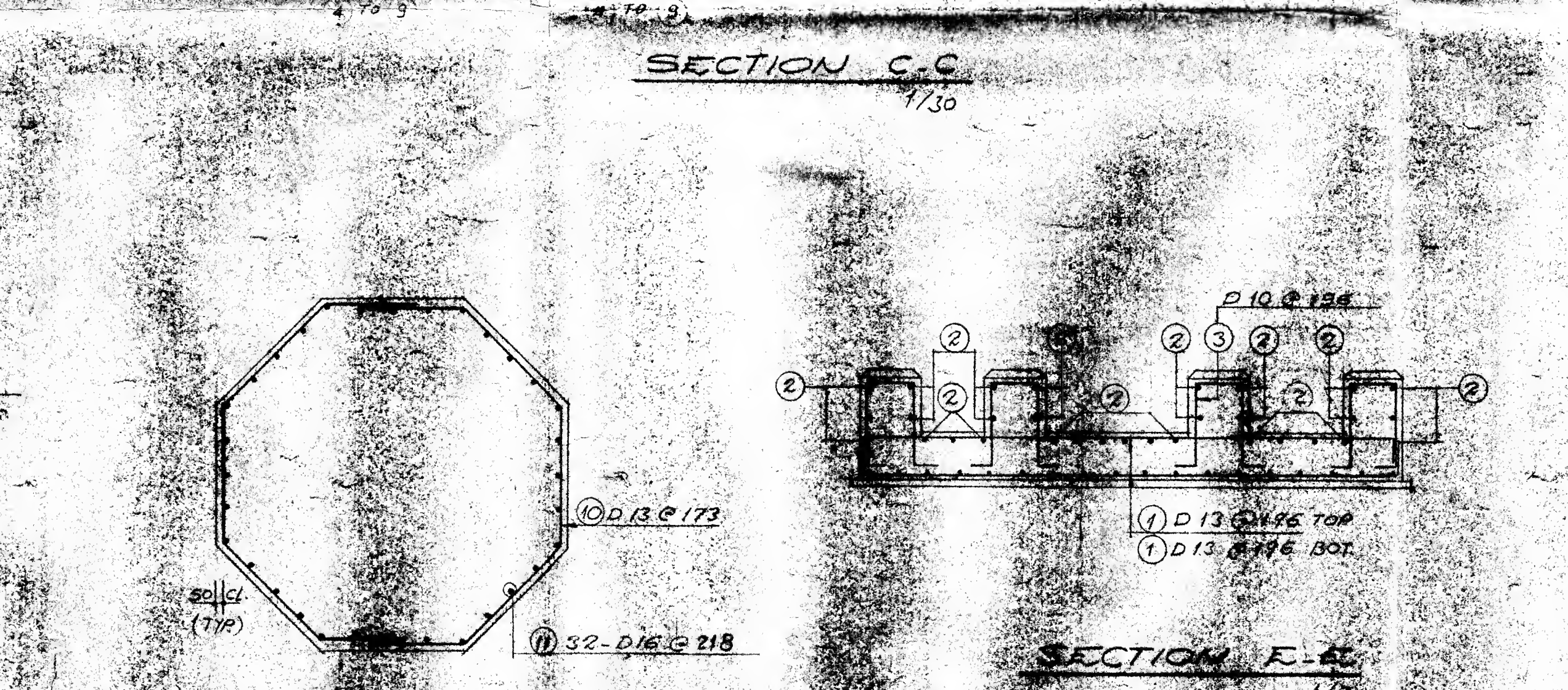
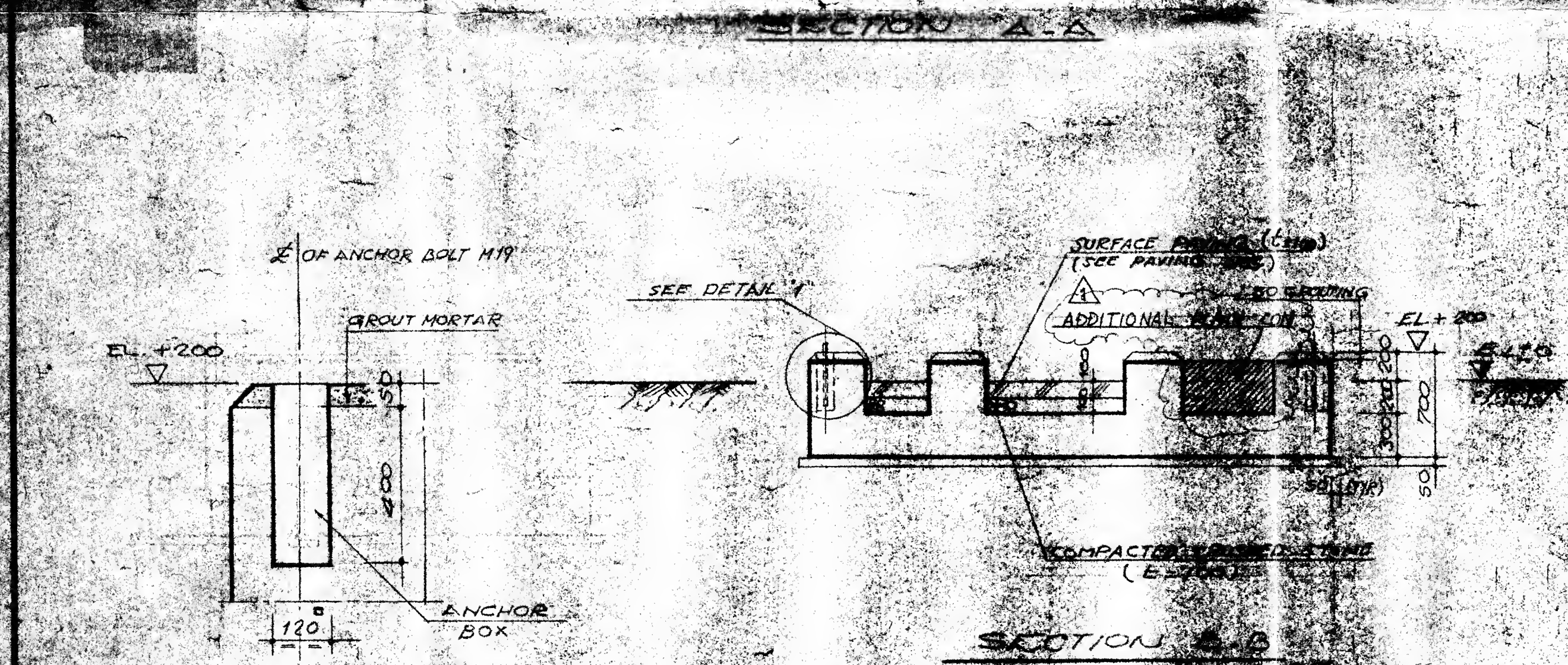
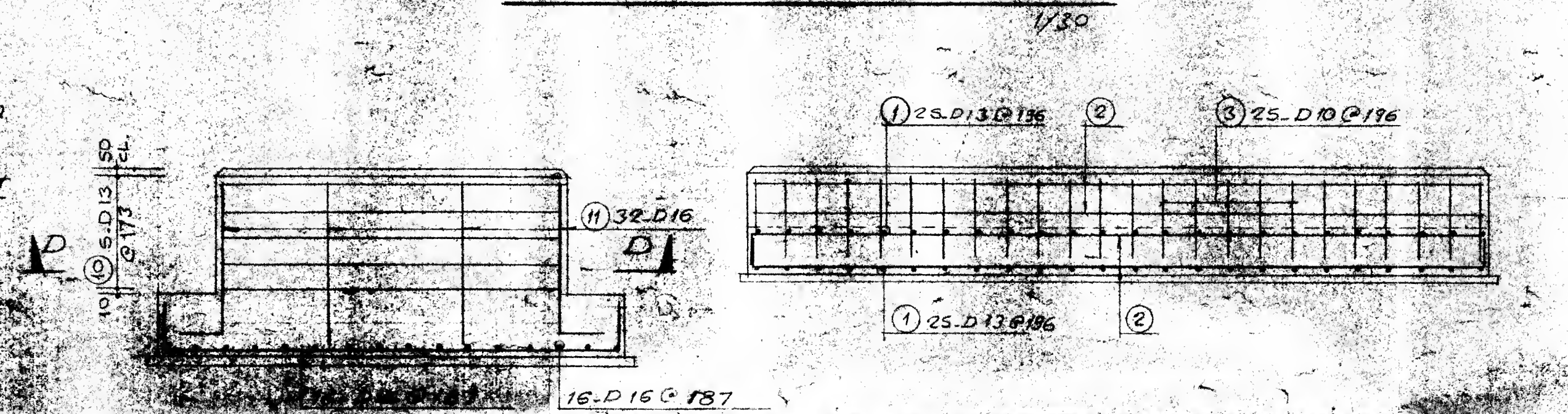
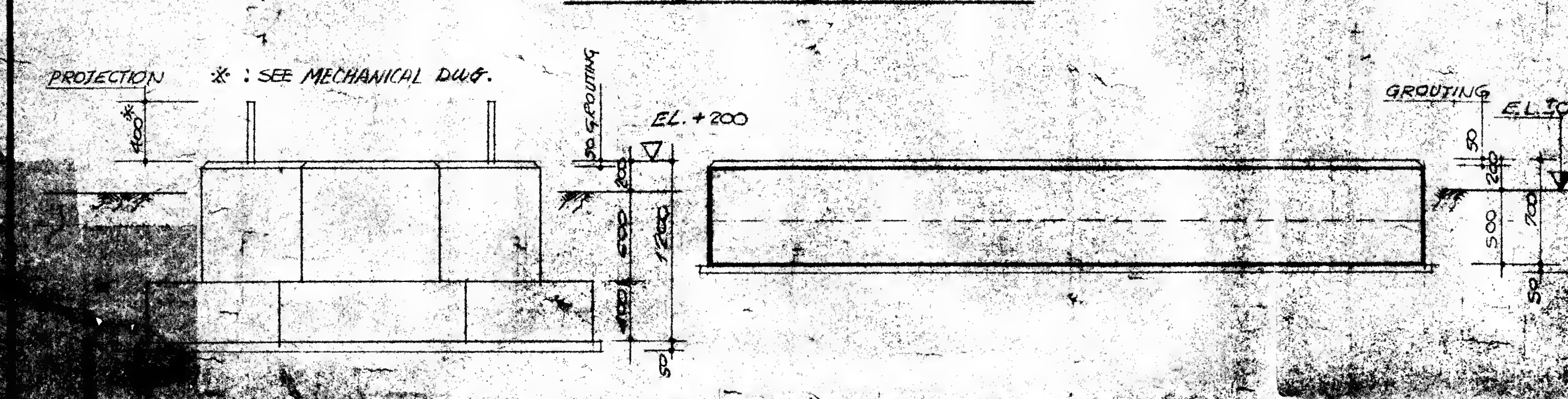
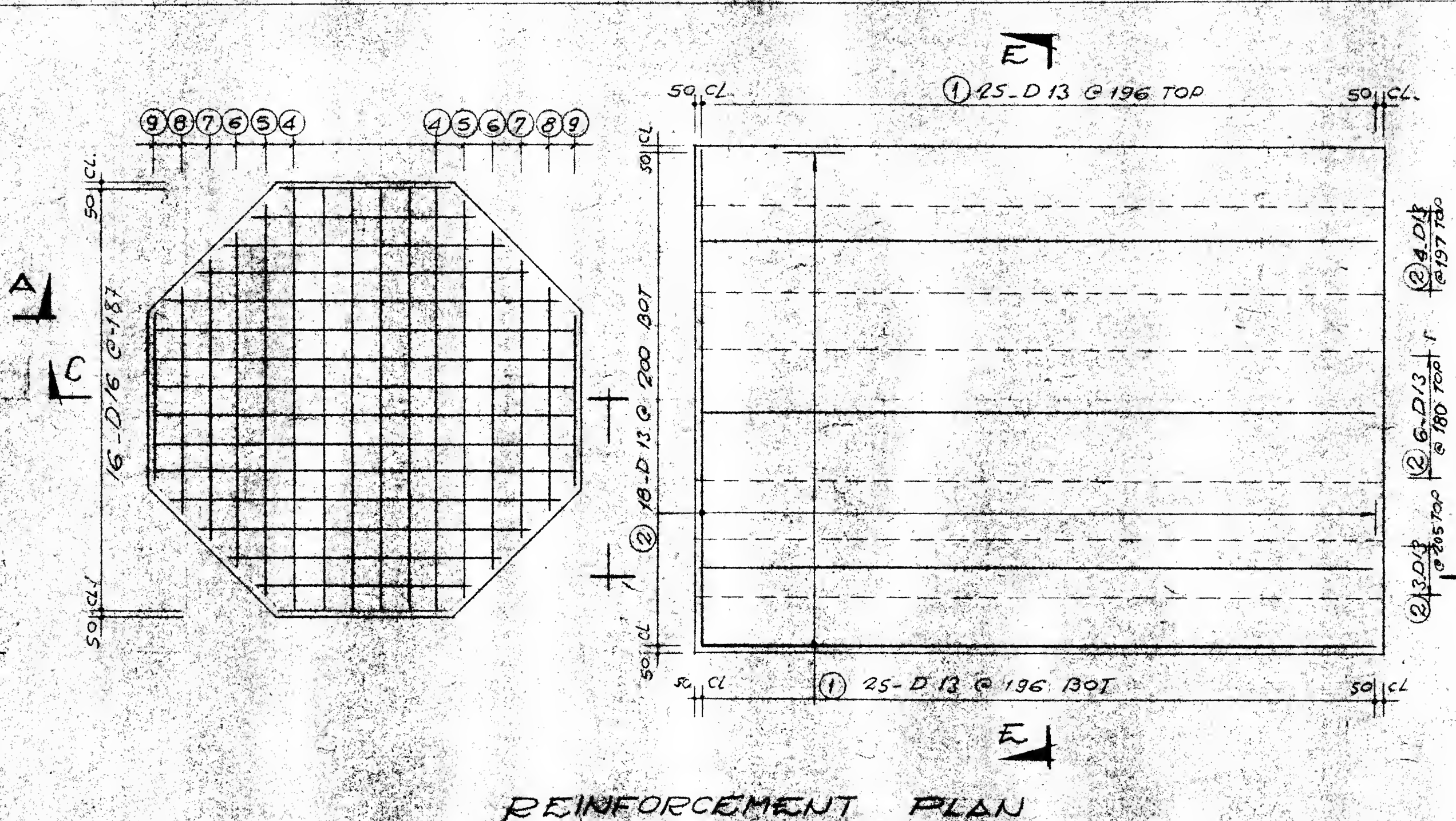
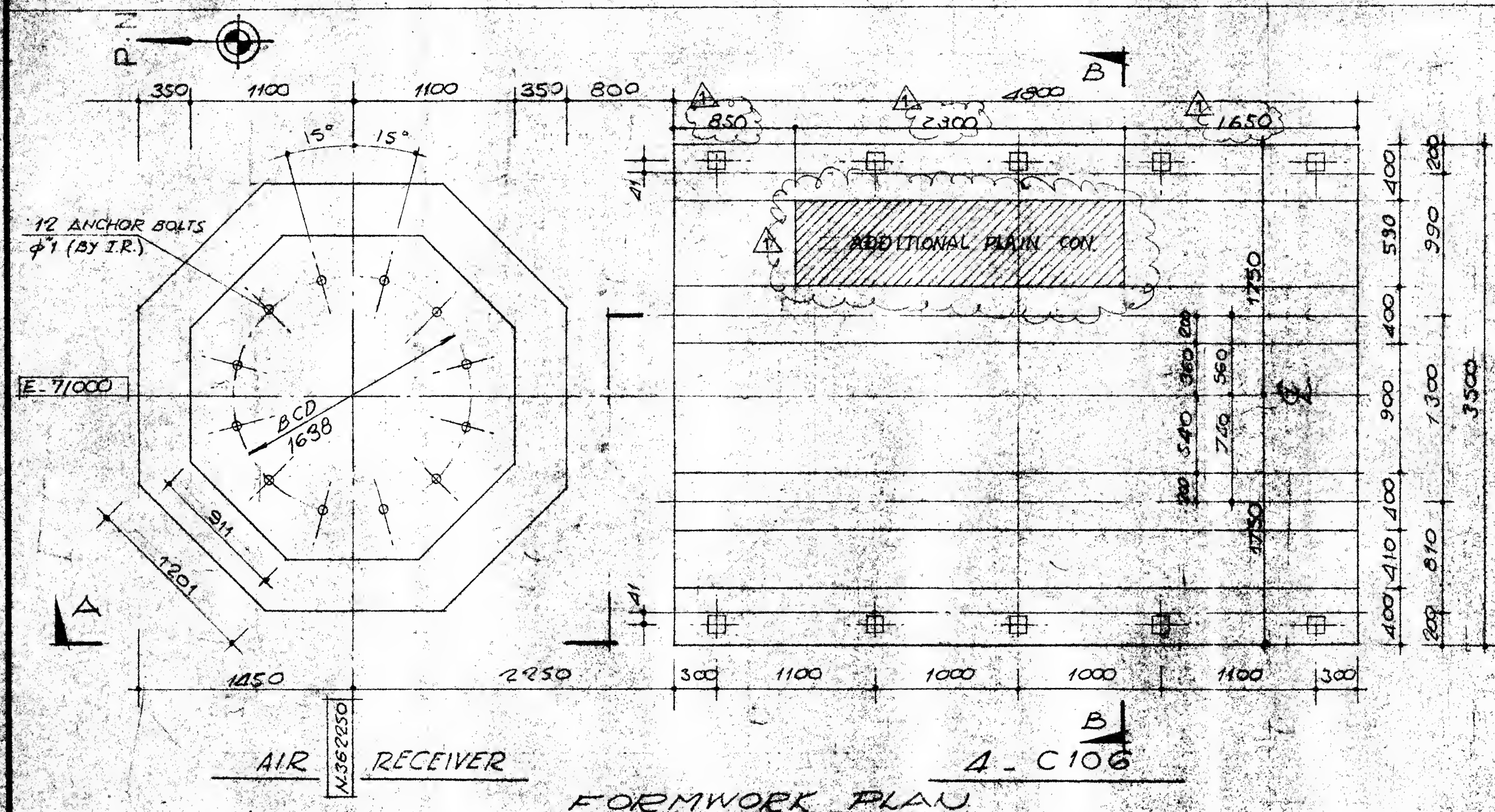
DATE	21.9.16	ITEM NO.	32014
TO	YK SUN	ASSEMBLY & DETAIL	
FROM		POTABLE WATER	
		FOR E DRUM	

DESIGN DATA		
CODE: 2225	350 TC DIV. 1	
CAPACITY: 2.2	TYPE: 175000	
FLUID: WATER	NO. OF REQD	1
OPERATING TEMPERATURE	33	°C
OPERATING PRESSURE	33	kg/cm ² G
DESIGN TEMPERATURE	33	°C
DESIGN PRESSURE	33	kg/cm ² G
MAX. TEMP. 110°C	40	kg/cm ² G
PNOM. TEST PRESSURE	100	kg/cm ² G
WATER (H ₂ O)	100	kg/m ²
DESIGN TEMP. 350°C	100	kg/cm ² G
DESIGN TEMP. VANCE	33	mm
TEST WELD TREATMENT	33	
WELD TYPE	33	
RADIATION	33	
FAILURE MODE FACTOR	33	
INSTALLATION	33	mm
PAINTING	33	
RECORD, GR. WY	33	
DESIGN PRESSURE	33	

1"	1"	12"	E"	ANALYST	MANIPUL
NO	1	12"	12"	ANALYST	MANIPUL
NO	2	12"	12"	ANALYST	MANIPUL
NO	3	12"	12"	ANALYST	MANIPUL
NO	4	12"	12"	ANALYST	MANIPUL
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NO	99	12"	12"	ANALYST	MANIPUL
NO	100	12"	12"	ANALYST	MANIPUL

[illegible]

NOZZLE AND ORIFICE FLOW



DETAIL 1

ITEM	A	B	C	D	E	F	G	H
1	13	196	3800	50	1	50		3440
2	13	5700	48	1	29			4150
3	10	196	1740	100	1	100		

BAR BENDING SCHEDULE

ITEM	A	B	C	D	E	F	G	H
1	16	187	3400	12	1	12		2800
2	16		3250	4	1	4		1650
3	16		2875	4	1	4		2275
4	16		2500	4	1	4		2100
5	16		2125	4	1	4		1725
6	16		1750	4	1	4		1350
7	13	173		10	1	10		2175
8	13	218		32	1	32		300

REFERENCE DRAWINGS		
NAME OF DRAWINGS	SHEET No.	REV.
FOUND. LOCATION PLAN	GOS-AC-1400-53.011	
CONCRETE SPECS.	GOS-AC-20.006	
CONCRETE ACC.	GOS-AC-20.010	
SHIM & GROUTING	GOS-AC-20.007	

NOTE:
ALL DIMENSIONS ARE IN M.M.

Approved

DATE *10/10/80*

NOTES:
A... MARK OF REINFORCEMENT.
B... DIAMETER OF REINFORCEMENT.
C... SECTION.
D... STRAIGHTENED LENGTH OF REINFORCEMENT.
E... NUMBER OF REINFORCEMENT PER ELEMENT.
F... NUMBER OF ELEMENT.
G... TOTAL NUMBER OF REINFORCEMENT.
H... FIGURE.

LIST OF MATERIALS			
DESCRIPTION	UNIT	QUANTITY	REMARKS
REINFORCED CONC.	M ³	13.51	
LEVELLING CONC.	M ³	25.09	
FORMWORK	M ²	28.76	
EXCAVATION	M ³	17.58	
BACK FILLING	M ³	4.51	
BAR D-10	KG.	97.44	
BAR D-13	KG.	476.61	
BAR D-16	KG.	206.55	

REVISION	DESCRIPTION	DATE	CHKD
1	REVISED AS NOTED	10/10/80	N.H.
2	ISSUED FOR APPROVAL	10/10/80	N.H.

01401 EGPC

SELF OF SUEZ GAS PLANT PHASE

FOUNDATION DETAILS FOR

LOGG & AIR RECEIVER (4X10)

SCALE 1/20

Hitachi Zosen

CIVIL ENGINEERING DEPARTMENT

OSAKA, JAPAN

DATE APR. 19/80

2485377

2485377